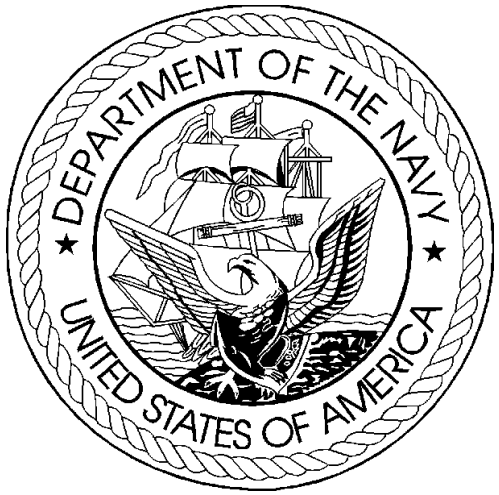
DEPARTMENT OF THE NAVY
FY 1998/1999 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES

PROCUREMENT, MARINE CORPS
BUDGET ACTIVITY 2

FEBRUARY 1997

EXHIBIT P-1

DEPARTMENT OF THE NAVY
FY 1998/FY 1999 PROCUREMENT PROGRAMS

APPROPRIATION: 1109N Procurement, Marine Corps

DATE: 02/04/97

LINE NO	ITEM NOMENCLATURE	IDENT CODE	DOLLARS FY 1998 UNIT COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	
BUDGET ACTIVITY 02: Weapons and Combat Vehicles												
Tracked Combat Vehicles												
1	2021 AAV7A1 PIP	A			11.5		14.0		13.5		13.8	U
2	2038 LAV PIP	A			22.4		7.7		0.6		1.4	U
3	2039 Light Armored Vehicle	A			-		-		6.7		-	U
4	2063 Modification Kits (Trkd Veh)	A			16.8		0.5		4.5		11.0	U
5	2105 Items Under $2M (Trkd Veh)	A			-		0.1		0.1		0.1	U
Artillery And Other Weapons												
6	2209 Mod Kits (Artillery)	A			0.1		1.1		1.8		2.6	U
7	2210 Items Under $2M (All Other)	A			2.0		0.1		0.8		0.1	U
8	2211 Marine Enhancement Program				-		7.7		1.5		2.1	U
Weapons												
9	2185 155MM Lightweight Towed Howit	A			-		-		-		7.6	U
TOTAL	Weapons and Combat Vehicles				52.7		31.1		29.5		38.7	

EXHIBIT P-1R

DEPARTMENT OF THE NAVY
FY 1998/FY 1999 PROCUREMENT PROGRAM - SUPPORT OF RESERVES

APPROPRIATION: 1109N Procurement, Marine Corps DATE: FEB 1997

(DOLLARS)

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998 UNIT COST	FY 1996 QUANTITY	FY 1996 COST	FY 1997 QUANTITY	FY 1997 COST	FY 1998 QUANTITY	FY 1998 COST	FY 1999 QUANTITY	FY 1999 COST	
BUDGET ACTIVITY 02: Weapons and Combat Vehicles												
Tracked Combat Vehicles												
1	2021 AAV7A1 PIP(RESERVE)	A			1.1		1.9		2.2		2	U
2	2038 LAV PIP(RESERVE)	A			6.6		2.6		-		0.2	U
3	2063 Modification Kits (Trkd Veh)(	A			5.8		-		-		-	U
TOTAL	Weapons and Combat Vehicles				13.5		4.4		2.2		2.2	

Procurement, Marine Corps
Program and Financing (in Thousands of dollars) SUMMARY

Identification code 17-1109-0-1-051		Budget Plan (amounts for actions programed) PROCUREMENT			
		1996 actual	1997 est.	1998 est.	1999 est.
	Program by activities:				
	Direct program:				
00.0101	Ammunition				
00.0201	Weapons and combat vehicles	52,740	31,126	29,539	38,706
00.0301	Guided missiles and equipment	24,208	53,371	46,680	103,857
00.0401	Communications and electronics equipment	211,780	329,528	217,020	286,058
00.0501	Support vehicles	22,866	28,216	9,512	178,029
00.0601	Engineer and other equipment	84,655	94,855	46,640	57,982
00.0701	Spares and repair parts	46,200	42,593	24,915	30,904
00.9101	Total direct program	442,449	579,689	374,306	695,536
01.0101	Reimbursable program	2,424	9,400	9,400	9,400
10.0001	Total	444,873	589,089	383,706	704,936
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)	-2,424	-9,400	-9,400	-9,400
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-378			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
39.0001	Budget authority	442,072	579,689	374,306	695,536
	Budget authority:				
40.0001	Appropriation	454,765	569,073	374,306	695,536
40.7501	Reduction pursuant to P.L. 104-208 (-), 8037(h)		-940		
41.0001	Transferred to other accounts (-)	-14,008			
42.0001	Transferred from other accounts	1,315	11,556		
43.0001	Appropriation (adjusted)	442,072	579,689	374,306	695,536
	Relation of obligations to outlays:				
71.0001	Obligations incurred				
72.4001	Obligated balance, start of year				
74.4001	Obligated balance, end of year				
77.0001	Adjustments in expired accounts (net)				
78.0001	Adjustments in unexpired accounts				
90.0001	Outlays (net)				

Procurement, Marine Corps
Program and Financing (in Thousands of dollars) SUMMARY

Identification code 17-1109-0-1-051		Obligations			
		1996 actual	1997 est.	1998 est.	1999 est.
	Program by activities:				
	Direct program:				
00.0101	Ammunition	56			
00.0201	Weapons and combat vehicles	120,520	43,749	28,331	36,950
00.0301	Guided missiles and equipment	12,051	52,862	48,663	92,756
00.0401	Communications and electronics equipment	186,102	301,372	243,266	277,875
00.0501	Support vehicles	29,175	26,536	11,843	145,261
00.0601	Engineer and other equipment	86,586	92,257	53,616	58,127
00.0701	Spares and repair parts	71,182	37,751	26,323	30,591
00.9101	Total direct program	505,672	554,527	412,042	641,560
01.0101	Reimbursable program	328	11,824	9,400	9,400
10.0001	Total	506,000	566,351	421,442	650,960
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)	-2,966	-9,400	-9,400	-9,400
17.0001	Recovery of prior year obligations	-22,624			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-159,153	-121,194	-143,932	-106,196
21.4003	Available to finance new budget plans	-378			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	121,194	143,932	106,196	160,172
39.0001	Budget authority	442,072	579,689	374,306	695,536
	Budget authority:				
40.0001	Appropriation	454,765	569,073	374,306	695,536
40.7501	Reduction pursuant to P.L. 104-208 (-), 8037(h)		-940		
41.0001	Transferred to other accounts (-)	-14,008			
42.0001	Transferred from other accounts	1,315	11,556		
43.0001	Appropriation (adjusted)	442,072	579,689	374,306	695,536
	Relation of obligations to outlays:				
71.0001	Obligations incurred	503,034	556,951	412,042	641,560
72.4001	Obligated balance, start of year	851,409	883,949	860,654	753,608
74.4001	Obligated balance, end of year	-883,949	-860,654	-753,608	-887,759
77.0001	Adjustments in expired accounts (net)	6,167			
78.0001	Adjustments in unexpired accounts	-22,624			
90.0001	Outlays (net)	454,037	580,246	519,088	507,409

Procurement, Marine Corps
Object Classification (in Thousands of dollars) SUMMARY

Identification code 17-1109-0-1-051	1996 actual	1997 est.	1998 est.	1999 est.
Direct obligations:				
125.101 Advisory and assistance services	4,066	4,030	2,358	4,222
126.001 Supplies and materials	158,302	151,890	125,684	209,484
131.001 Equipment	343,304	398,607	284,000	427,854
199.001 Total Direct obligations	505,672	554,527	412,042	641,560
Reimbursable obligations:				
231.001 Equipment	328	11,824	9,400	9,400
299.001 Total Reimbursable obligations	328	11,824	9,400	9,400
999.901 Total obligations	506,000	566,351	421,442	650,960

BUDGET ITEM JUSTIFICATION SHEET								DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2				P-1 ITEM NOMENCLATURE: AAV7A1 PRODUCT IMPROVEMENT PROGRAM RCN: 022421				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 11.5	$ 14.0	$ 13.5	$ 13.8	$ 2.6	$ 2.7	$ 3.0	$ 3.1

The AAV7A1 Product Improvement Program is for the procurement of modification kits/assemblies that have been tested, reviewed and approved by the responsible MCSC offices. These modifications provide significant improvements to vehicular reliability maintainability, battlefield survivability, combat capability and operational safety. This program will extend the combat utility/readiness of the AAV7A1 Family of Vehicles (FOV) until replaced by the successor vehicle (AAAV).

Modification	Installing Agent	Installation	End Item
IRAM	MCLB Albany	Begin: JUL 95 End: SEP 99	AAV7A1 FOV
AAV7A1 Mod Kits	Various	Begin: Various End: Various	AAV7A1 FOV
SINCGARS Installation Kits	MCLB Albany UNICOR FMF	Begin: Jan 95 End: Sep 99	AAV7A1 FOV

BLI NR. 202100	P-1 SHOPPING LIST ITEM NO. 1 - PAGE NO. 1	EXHIBIT P-40

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: AAV7A1 PRODUCT IMPROVEMENT PROGRAM RCN: 022421

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

MODIFICATION TITLE	FY1996	FY1997	FY1998	FY1999
ITRANS/IRAM (ECP 5220) FACILITIZATION COST				
ECP 5220 KITS	5.696	6.550	6.697	6.902
ECP 5220 INSTALLATION	2.485	2.879	2.943	3.033
AAV MOD KITS		1.698	1.913	2.812
SINCGARS INSTALLATION COST				
AAVP7A1 VARIANT KITS	0.628	0.641	0.492	
AAVP7A1 INSTALLATION	1.222	0.808	0.748	0.729
AAVC7A1 VARIANT KITS	0.095	0.097	0.084	
AAVC7A1 INSTALLATION	0.109	0.106	0.120	0.082
AAVR7A1 VARIANT KITS	0.020	0.020	0.014	
AAVR7A1 INSTALLATION	0.060	0.034	0.039	0.026
FACTORY TRAINING	0.398	0.350	0.270	0.000
ENGINEERING SUPPORT	0.820	0.797	0.200	0.200
TOTAL	11.533	13.980	13.520	13.784

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY: Reserves
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2

P-1 ITEM NOMENCLATURE:
AAV7A1 PRODUCT IMPROVEMENT PROGRAM
RCN: 22421

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 1.1	$ 1.9	$ 2.2	$ 2.0	$ 0.5	$ 0.2	$ 0.2	$ 0.3

The AAV7A1 Product Improvement Program is for the procurement of modification kits / assemblies that have been tested, reviewed and approved by the responsible MARCORSYSCOM Offices. These modifications provide significant improvements to vehicular reliability, maintainability, battlefield survivability, combat capability and operational safety. This program will extend the combat utility / readiness of the AAV7A1 Family of Vehicles until replaced by the successor vehicle (AAAV) in the 2005 through 2013 period.

Modificatiions applicable to the Reserves are as follows: ITRANS / IRAM; AAV7A1 Mod Kits; and installation of Sincgars Radios for all vehicle variants (P Variant, C Variant, and R Variant).

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME AAV7A1 PRODUCT IMPROVEMENT PROGRAM RCN 022421	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION VARIOUS	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	QTY TOTAL COST	FY 1997 UNIT COST	QTY TOTAL COST	FY 1998 UNIT COST	QTY TOTAL COST	FY 1999 UNIT COST	QTY TOTAL COST
ITRANS/IRAM (ECP 5220)									
			320		360		360		363
A. ECP 5220 KITS		17800	5696	18192	6550	18603	6697	19014	6902
ECP 5220 INSTALLATION			2485		2879		2943		3033
SUBTOTAL ECP 5220			8181		9429		9640		9935
B. AAV MOD KITS					1698		1913		2812
C. SINCGARS									
			200		200		150		
AAVP7A1 KITS		3138	628	3207	641	3279	492		
AAVP7A1 INSTALLATION			1222		808		748		729
			20		20		17		
AAVC7A1 KITS		4753	95	4857	97	4967	84		
AAVC7A1 INSTALLATION			109		106		120		82
			10		10		7		
AAVR7A1 KITS		1963	20	2006	20	2051	14		
AAVR7A1 INSTALLATION			60		34		39		26
SUBTOTAL SINCGARS			2134		1706		1497		837
D. SUPPORT COSTS									
FACTORY TRAINING			398		350		270		
ENGINEERING SUPPORT			820		797		200		200
SPARES			(167)				(184)		(195)
TOTAL COST			11533		13980		13520		13784

BLI NR. 202100	P-1 SHOPPING LIST ITEM NO. 1 - PAGE NO. 4	EXHIBIT P-5

PROCUREMENT HISTORY & PLANNING										DATE:
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2					P-1 ITEM NOMENCLATURE: AAV7A1 PRODUCT IMPROVEMENT PROGRAM RCN: 022421					
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV RQRD	IF YES WHEN AVAIL
ITRANS/IRAM (ECP 5220)										
FY 96	MCLB, ALBANY	ALLOTMENT	MCSC	JAN 96	JAN 96	320	17800	YES	NO	N/A
FY 97	MCLB, ALBANY	ALLOTMENT	MCSC	OCT 96	OCT 96	360	18192	YES	NO	N/A
FY 98	MCLB, ALBANY	ALLOTMENT	MCSC	OCT 97	OCT 97	360	18603	YES	NO	N/A
FY 99	MCLB, ALBANY	ALLOTMENT	MCSC	OCT 98	OCT 98	363	19014	YES	NO	N/A
AAV7A1 MOD KITS										
FY 96	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS		VARIOUS	YES	NO	N/A
FY 97	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS		VARIOUS	YES	NO	N/A
FY 98	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS		VARIOUS	YES	NO	N/A
FY 99	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS		VARIOUS	YES	NO	N/A
SINCGARS KITS										
AAVP7A1										
FY 96	UNICOR	MIPR	MCSC	MAR 96	DEC 96	200	3138	YES	NO	N/A
FY 97	UNICOR	MIPR	MCSC	NOV 96	AUG 97	200	3207	YES	NO	N/A
FY 98	UNICOR	MIPR	MCSC	NOV 97	AUG 98	150	3279	YES	NO	N/A
AAVC7A1										
FY 96	UNICOR	MIPR	MCSC	MAR 96	DEC 96	20	4753	YES	NO	N/A
FY 97	UNICOR	MIPR	MCSC	NOV 96	AUG 97	20	4857	YES	NO	N/A
FY 98	UNICOR	MIPR	MCSC	NOV 97	AUG 98	17	4967	YES	NO	N/A
AAVR7A1										
FY 96	UNICOR	MIPR	MCSC	MAR 96	DEC 96	10	1963	YES	NO	N/A
FY 97	UNICOR	MIPR	MCSC	NOV 96	AUG 97	10	2006	YES	NO	N/A
FY 98	UNICOR	MIPR	MCSC	NOV 97	AUG 98	7	2051	YES	NO	N/A

REMARKS:

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: ITRANS/IRAM

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION/JUSTIFICATION: The AAV7A1 ITRANS/IRAM PIP combines both ECP 2178-R2 (Built-Up Transmission) and ECP 5220 (Improved Reliable and Maintainable Transmission) to provide durability and maintainability while extending the service life of the transmission. The ITRANS improvements will concentrate on eliminating debris and improving the filtration of oil. Major reliability improvements consist of improved filter system, improved clutch plate, new input spur gear and improved hydraulic lines. The maintenance improvements include improved oil sampling valves and brake modifications. The IRAM will concentrate on 100 percent replacement of external nuts, bolts, washers, bearings, gaskets, and seals. Other associated parts that may hinder the serviceability of the AAV7A1 vehicle will be inspected during the conversion.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	320		360		360		363										1403	
Installation Kits																		0.000
Install. Kits Nonrecurring		5.696		6.550		6.697		6.902										25.845
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
		QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																		0	0.000
(FY 1996) Eqpt	(320 Kits)	320	2.485															320	2.485
(FY 1997) Eqpt	(360 Kits)			360	2.879													360	2.879
(FY 1998) Eqpt	(360 Kits)					360	2.943											360	2.943
(FY 1999) Eqpt	(363 Kits)							363	3.033									363	3.033
(FY 2000) Eqpt	(Kits)																	0	0.000
(FY 2001) Eqpt	(Kits)																	0	0.000
(FY 2002) Eqpt	(Kits)																	0	0.000
(TO COMP) Eqpt	(Kits)																	0	0.000
TOTAL INSTALLATION COST		320	2.485	360	2.879	360	2.943	363	3.033	0	0.000	0	0.000	0	0.000	0	0.000	1403	11.340
TOTAL PROCUREMENT COST			8.181		9.429		9.640		9.935		0.000		0.000		0.000		0.000		37.185

METHOD OF IMPLEMENTATION: DEPOT ADMIN LEAD-TIME: 0 MONTHS PRODUCTION LEAD-TIME: 0 MONTHS

CONTRACT DATES: FY 1996 JAN 96 FY 1997 OCT 96 FY 1998 OCT 97 FY 1999 OCT 98

DELIVERY DATES: FY 1996 JAN 96 FY 1997 OCT 96 FY 1998 OCT 97 FY 1999 OCT 98

	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	107	107	106		90	90	90	90	90	90	90	90	90	90	90	93													1403			
OUTPUT	107	107	106		90	90	90	90	90	90	90	90	90	90	90	93													1403			

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AAV7A1 MODIFICATION KITS AND SECONDARY REPAIRABLES

MODELS OF SYSTEMS AFFECTED: AAV7A1 FAMILY OF VEHICLES

DESCRIPTION/JUSTIFICATION: The AAV7A1 Modification Kits Program is for the procurement of modification kits/assemblies that have been tested, reviewed and approved by the responsible MCSC offices. These modifications provide significant improvements to vehicular reliability, maintainability, and operationa safety. These modifications are also a method by which FMF Quality Deficiency Reports and Beneficial Suggestions are implemented.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity																	0	
Installation Kits																		0.000
Install. Kits Nonrecurring		1.698		1.913		2.812		2.357		2.460		2.678						13.918
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt (Kits)																	0	0.000
(FY 1997) Eqpt (Kits)																	0	0.000
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(FY 2001) Eqpt (Kits)																	0	0.000
(FY 2002) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		1.698		1.913		2.812		2.357		2.460		2.678		0.000		13.918

METHOD OF IMPLEMENTATION: Field ADMIN LEAD-TIME: Var. MONTHS PRODUCTION LEAD-TIME: Var. MONTHS

CONTRACT DATES: FY 1996 Various FY 1997 Various FY 1998 Various FY 1999 Various

DELIVERY DATES: FY 1996 Various FY 1997 Various FY 1998 Various FY 1999 Various

INSTALLING SCHEDULE:	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	TOTAL
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
INPUT								
OUTPUT								

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AAVP7A1 SINCGARS KITS AND INSTALLATION

MODELS OF SYSTEMS AFFECTED: AAVP7A1

DESCRIPTION/JUSTIFICATION: The new Single Channel Ground and Air Radio System (SINCGARS) VHF combat net radio system replaces the older AN/VRC-12 Family of radios. SINCGARS provides communications in a high jam environment. Installation of SINCGARS in the AAV7A1's will allow embarked command staff, ebbarked troop commanders, and vehicle crews to maintain communications within the chain of command.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	200		200		150												550	
Installation Kits																		0.000
Install. Kits Nonrecurring		0.628		0.641		0.492												1.761
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
		QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																		0	0.000
(FY 1994) Eqpt	(502 Kits)	212	0.830															212	0.830
(FY 1995) Eqpt	(100 Kits)	100	0.392															100	0.392
(FY 1996) Eqpt	(200 Kits)			200	0.808													200	0.808
(FY 1997) Eqpt	(200 Kits)					180	0.748	20	0.085									200	0.833
(FY 1998) Eqpt	(150 Kits)							150	0.644									150	0.644
(FY 1999) Eqpt	(Kits)																	0	0.000
(FY 2000) Eqpt	(Kits)																	0	0.000
(FY 2001) Eqpt	(Kits)																	0	0.000
(FY 2002) Eqpt	(Kits)																	0	0.000
(TO COMP) Eqpt	(Kits)																	0	0.000
TOTAL INSTALLATION COST		312	1.222	200	0.808	180	0.748	170	0.729	0	0.000	0	0.000	0	0.000	0	0.000	862	3.507
TOTAL PROCUREMENT COST			1.850		1.449		1.240		0.729		0.000		0.000		0.000		0.000	862	5.268

METHOD OF IMPLEMENTATION: DEPOT/CONTRACTOR ADMIN LEAD-TIME: 5 MONTHS PRODUCTION LEAD-TIME: 9 MONTHS

CONTRACT DATES: FY 1996 MAR 96 FY 1997 NOV 96 FY 1998 NOV 97 FY 1999 N / A

DELIVERY DATES: FY 1996 DEC 96 FY 1997 AUG 97 FY 1998 AUG 98 FY 1999 N / A

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	78	78	78	78	50	50	50	50	45	45	45	45	43	43	42	42													862			
OUTPUT	78	78	78	78	50	50	50	50	45	45	45	45	43	43	42	42													862			

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AAVC7A1 SINCGARS KITS AND INSTALLATION

MODELS OF SYSTEMS AFFECTED: AAVC7A1

DESCRIPTION/JUSTIFICATION: The new Single Channel Ground and Air Radio System (SINCGARS) VHF combat net radio system replaces the older AN/VRC-12 Family of radios. SINCGARS provides communications in a high jam environment. Installation of SINCGARS in the AAV7A1's will allow embarked command staff, embarked troop commanders, and vehicle crews to maintain communications within the chain of command.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	20		20		17												57	
Installation Kits																		0.000
Install. Kits Nonrecurring		0.095		0.097		0.084												0.276
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
		QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																			
(FY 1994) Eqpt	(39 Kits)	18	0.085															18	0.085
(FY 1995) Eqpt	(10 Kits)	5	0.024	5	0.024													10	0.048
(FY 1996) Eqpt	(20 Kits)			17	0.082	3	0.015											20	0.097
(FY 1997) Eqpt	(20 Kits)					20	0.100											20	0.100
(FY 1998) Eqpt	(17 Kits)					1	0.005	16	0.082									17	0.087
(FY 1999) Eqpt	(Kits)																	0	0.000
(FY 2000) Eqpt	(Kits)																	0	0.000
(FY 2001) Eqpt	(Kits)																	0	0.000
(FY 2002) Eqpt	(Kits)																	0	0.000
(TO COMP) Eqpt	(Kits)																	0	0.000
TOTAL INSTALLATION COST		23	0.109	22	0.106	24	0.120	16	0.082	0	0.000	0	0.000	0	0.000	0	0.000	85	0.417
TOTAL PROCUREMENT COST			0.204		0.203		0.204		0.082		0.000		0.000		0.000		0.000	85	0.693

METHOD OF IMPLEMENTATION: DEPOT/CONTRACTOR ADMIN LEAD-TIME: 5 MONTHS PRODUCTION LEAD-TIME: 9 MONTHS

CONTRACT DATES: FY 1996 MAR 96 FY 1997 NOV 96 FY 1998 NOV 97 FY 1999 N / A

DELIVERY DATES: FY 1996 DEC 96 FY 1997 AUG 97 FY 1998 AUG 98 FY 1999 N / A

	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	6	6	6	5	6	6	5	5	6	6	6	6	5	5	6														85			
OUTPUT	6	6	6	5	6	6	5	5	6	6	6	6	5	5	6														85			

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AAVR7A1 SINCGARS KITS AND INSTALLATION

MODELS OF SYSTEMS AFFECTED: AAVR7A1

DESCRIPTION/JUSTIFICATION: The new Single Channel Ground and Air Radio System (SINCGARS) VHF combat net radio system replaces the older AN/VRC-12 Family of radios. SINCGARS provides communications in a high jam environment. Installation of SINCGARS in the AAV7A1's will allow embarked command staff, embarked troop commanders, and vehicle crews to maintain communications within the chain of command.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	10		10		7												27	
Installation Kits																		0.000
Install. Kits Nonrecurring		0.020		0.020		0.014												0.054
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
		QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																			
(FY 1994) Eqpt	(27 Kits)	14	0.042															14	0.042
(FY 1995) Eqpt	(10 Kits)	6	0.018	4	0.012													10	0.030
(FY 1996) Eqpt	(10 Kits)			7	0.022	3	0.010											10	0.032
(FY 1997) Eqpt	(10 Kits)					9	0.029	1	0.003									10	0.032
(FY 1998) Eqpt	(7 Kits)							7	0.023									7	0.023
(FY 1999) Eqpt	(Kits)																	0	0.000
(FY 2000) Eqpt	(Kits)																	0	0.000
(FY 2001) Eqpt	(Kits)																	0	0.000
(FY 2002) Eqpt	(Kits)																	0	0.000
(TO COMP) Eqpt	(Kits)																	0	0.000
TOTAL INSTALLATION COST		20	0.060	11	0.034	12	0.039	8	0.026	0	0.000	0	0.000	0	0.000	0	0.000	51	0.159
TOTAL PROCUREMENT COST			0.080		0.054		0.053		0.026		0.000		0.000		0.000		0.000	51	0.213

METHOD OF IMPLEMENTATION: DEPOT/CONTRACTOR ADMIN LEAD-TIME: 5 MONTHS PRODUCTION LEAD-TIME: 9 MONTHS

CONTRACT DATES: FY 1996 MAR 96 FY 1997 NOV 96 FY 1998 NOV 97 FY 1999 N / A

DELIVERY DATES: FY 1996 DEC 96 FY 1997 AUG 97 FY 1998 AUG 98 FY 1999 N / A

	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	5	5	5	5	3	3	3	2	3	3	3	3	3	3	2														51			
OUTPUT	5	5	5	5	3	3	3	2	3	3	3	3	3	3	2														51			

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: LAV PRODUCT IMPROVEMENT PROGRAM (LAV-PIP) RCN: 23781

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (IN MILLIONS)	$ 22.4	$ 7.7	$ 0.6	$ 1.4	$ 1.7	$ 1.3	$ 1.7	$ 2.0

FY 1994-1997 LAV-25 THERMAL SIGHT:

The LAV-25 Thermal Sight will significantly enhance effectiveness of reconnaisance and accuracy by providing the LAV gunner a state-of-the-art thermal imaging capability. Night fighting will be greatly enhanced. A greater range and sharper image through battlefield obscurants will also be obtained. This PIP replaces the gunner's M36 Fire Control Periscope. This buy will provide thermal sights to each LAV-25 including operator and maintenance training at formal schools.

The LAV-25 Thermal Sight is Code A.

MODIFICATION	INSTALLING AGENT	INSTALLATION	END ITEM
Thermal Sight	TACOM, Warren, Michigan	BEGIN: Jul 96 END: Sep 97	Lav-25

FY 1996-1997 LAV MOBILITY BLOCK IMPROVEMENT PROGRAM

Funding for the Mobility Block Improvement Program will provide the following ugrades to the Family of LAVs:

Silver Series Engine - This modification provides for the remanufacture of the diesel engines which have been operating in the Marine Corps existing fleet since the 1980's. These old engines, commonly referred to as the "Green" engine, are no longer in production. However, they will be upgraded to the newer "Silver" Series configuration which will provide improved economy, quieter operation, and overall reduced future operations and maintenance costs.

Brake System Improvements - The new brake system will replace the current pressure-protection valve system and will provide a sure means of stopping the vehicles.

Engine Grill Cover - The new engine grill cover will provide a more durable means of protecting the engine and radiator during fording and swimming operations.

M17 Laser Shielded Periscopes - These will provide safe vision protection for the LAV crew.

Steering Roller Bearing - The Steering Roller Bearing will have a more effective seal, adding service life to that component and resulting in less vehicle down-time.

Wheel Alignment Equipment - Wheel Alignment Equipment will provide a means to accurately align the LAV steering system.

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: LAV PRODUCT IMPROVEMENT PROGRAM (LAV-PIP) RCN: 23781

MODIFICATION	INSTALLING AGENT	INSTALLATION	END ITEM
Mobility Enhancement	Various	BEGIN: Various END: Various	LAV Family of Vehicles

The Mobility Block is Code A.

FY 1996 - FY 2003 LAV RAM IMPROVEMENTS

Funding for the LAV RAM Improvements include:

Gun Barrel Bore Gauge - This device allows the LAV crew to more accurately assess the condition of the 25mm gun bore.

Sub Caliber Device - This RAM improvement allows LAV crews to live-fire train with less expensive 7.62mm rounds instead of the more expensive 25mm ammunition. This purchase will generate huge savings in ammunition costs.

Long-Stroke Recoil - This improvement will greatly increase the accuracy of the LAV 25mm Chaingun as well as increase the gun's service life.

MODIFICATION	INSTALLING AGENT	INSTALLATION	END ITEM
Various	Various	BEGIN: Various END: Various	LAV Family of Vehicles

The RAM is Code A.

BLI NR. 203800	P-1 SHOPPING LIST ITEM NO. 2 - PAGE NO. 2	EXHIBIT P-40

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: LAV PRODUCT IMPROVEMENT PROGRAM (LAV-PIP) RCN: 23781

MODELS OF SYSTEMS AFFECTED: LAV-25, LAV-AT, LAV-R, LAV-C2, LAV-L

($ IN MILLIONS)

MODIFICATION TITLE	FY 1996	FY 1997	FY 1998	FY 1999
LAV-25 Thermal Sight (LAV-25 only)	10.884	0.432	0.000	0.000
LAV Mobility Improvements (All LAVs)	10.812	6.610	0.000	0.000
LAV RAM Improvements (All LAVs)	0.668	0.612	0.600	1.410
TOTAL	22.364	7.654	0.600	1.410

BLI NR. 203800	P-1 SHOPPING LIST ITEM NO. 2 - PAGE NO. 3	EXHIBIT P-40

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: Reserves PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: LAV PRODUCT IMPROVEMENT PROGRAM (LAV-PIP) RCN: 23781

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 6.6	$ 2.6	$ 0.0	$ 0.2	$ 0.2	$ 0.2	$ 0.2	$ 0.2

FY 1994-1997 LAV-25 THERMAL SIGHT:

The LAV-25 Thermal Sight will significantly enhance effectiveness of reconnaisance and accuracy by providing the LAV gunner a state-of-the-art thermal imaging capability. Night fighting will be greatly enhanced. A greater range and sharper image through battlefield obscurants will also be obtained. This PIP replaces the gunner's M36 Fire Control Periscope. This buy will provide thermal sights to each LAV-25 including operator and maintenance training at formal schools.

FY 1996-1997 LAV MOBILITY BLOCK IMPROVEMENT PROGRAM

Funding for the Mobility Block Improvement Program will provide the following ugrades to the Family of LAVs:

Silver Series Engine - This modification provides for the remanufacture of the diesel engines which have been operating in the Marine Corps existing fleet since the 1980's. These old engines, commonly referred to as the "Green" engine, are no longer in production. However, they will be upgraded to the newer "Silver" Series configuration which will provide improved economy, quieter operation, and overall reduced future operations and maintenance costs.

Brake System Improvements - The new brake system will replace the current pressure-protection valve system and will provide a sure means of stopping the vehicles.

Engine Grill Cover - The new engine grill cover will provide a more durable means of wrapping the engine and radiator during fording and swimming operations.

M17 Laser Shielded Periscopes - These will provide safe vision protection for the LAV crew.

Steering Roller Bearing - The Steering Roller Bearing will have a more effective seal, adding service life to that component and resulting in less vehicle down-time.

Wheel Alignment Equipment - Wheel Alignment Equipment will provide a means to accurately align the LAV steering system.

Funding for the LAV RAM Improvements include:

Gun Barrel Bore Gauge - This device allows the LAV crew to more accurately assess the condition of the 25mm gun bore.

Sub Caliber Device - This RAM improvement allows LAV crews to live-fire train with less expensive 7.62mm rounds instead of the more expensive 25mm ammunition. This purchase will generate huge savings in ammunition costs.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	QTY TOTAL COST	FY 1997 UNIT COST	QTY TOTAL COST	FY 1998 UNIT COST	QTY TOTAL COST	FY 1999 UNIT COST	QTY TOTAL COST
			117						
LAV-25 THERMAL SIGHT		75463	8829						
Government Engineering			350						
Training/Training Mat'ls			249						
IPT			210						
Installation			548		432				
ILS			99						
Engineering Change Orders			599						
LAV MOBILITY BLOCK IMPROVEMENT PROGRAM			1 BLOCK		1 BLOCK				
Hardware			9927		6275				
Government Engineering			334		335				
IPT			359						
Support Equipment			192						
LAV RAM			1 BLOCK		1 BLOCK				1 BLOCK
Hardware			554		409		401		937
Government Engineering			83		172		169		401
IPT			31		31		30		72
SPARES			(682)		(1522)		(581)		(544)
TOTAL COST			22364		7654		600		1410

BLI NR. 203800	P-1 SHOPPING LIST ITEM NO. 2	PAGE NO. 5	EXHIBIT P-5

PROCUREMENT HISTORY & PLANNING										DATE:
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2					P-1 ITEM NOMENCLATURE: LAV PRODUCT IMPROVEMENT PROGRAM (LAV-PIP) RCN: 23781					
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV RQRD	IF YES WHEN AVAIL
LAV-25 THERMAL SIGHT	DELCO SANTA BARBARA, CA									
FY96		C/FFP	TACOM	DEC 95	JUL 96	117	75463	YES	NO	N/A
LAV MOBILITY BLOCK IMPROVEMENT PROGRAM										
FY96	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	1 BLOCK	VARIOUS	NO	NO	N/A
FY97	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	1 BLOCK	VARIOUS	NO	NO	N/A
LAV-RAM										
FY96	VARIOUS	VARIOUS	TACOM	VARIOUS	VARIOUS	1 BLOCK	VARIOUS	NO	N/A	N/A
FY97	VARIOUS	VARIOUS	TACOM	VARIOUS	VARIOUS	1 BLOCK	VARIOUS	NO	N/A	N/A
FY99	VARIOUS	VARIOUS	TACOM	VARIOUS	VARIOUS	1 BLOCK	VARIOUS	NO	N/A	N/A

REMARKS:

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: LAV-25 THERMAL SIGHT

MODELS OF SYSTEMS AFFECTED: LAV-25

DESCRIPTION/JUSTIFICATION: LAV-25 Thermal Sights will significantly enhance effectiveness of reconnaissance and weapons employment accuracy by providing the LAV-25 gunner a state-of-the-art thermal imaging capability. Night fighting capability will be greatly enhanced. A greater range and sharper image through smoke obscurance will also be obtained.

DEVELOPMENTAL STATUS/ MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	117																117	
Installation Kits																		0.000
Install. Kits Nonrecurring		8.829																8.829
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders		0.599																0.599
Data																		0.000
Training Support		0.249																0.249
Support Equipment																		0.000
Other		0.659																0.659
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1994) Eqpt (80 Kits)	80	0.179															80	0.179
(FY 1995) Eqpt (225 Kits)	160	0.369	65	0.156													225	0.525
(FY 1996) Eqpt (117Kits)			117	0.276													117	0.276
(FY 1997) Eqpt (Kits)																	0	0.000
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	240	0.548	182	0.432	0	0	0	0	0	0	0	0	0	0	0	0	422	0.98
TOTAL PROCUREMENT COST		10.884		0.432		0.000		0.000		0.000		0.000		0.000		0.000		11.316

METHOD OF IMPLEMENTATION: PM-LAV INST. TEAM ADMIN LEAD-TIME: 2 MONTHS PRODUCTION LEAD-TIME: 7 MONTHS

CONTRACT DATES: FY 1996 DEC 1995 FY 1997 _____ FY 1998 _____

DELIVERY DATES: FY 1996 JULY 1996 FY 1997 _____ FY 1998 _____

INSTALLING SCHEDULE:	FY 1996 1 2 3 4	FY 1997 1 2 3 4	FY 1998 1 2 3 4	FY 1999 1 2 3 4	FY 2000 1 2 3 4	FY 2001 1 2 3 4	FY 2002 1 2 3 4	TOTAL 1 2 3 4
INPUT	240	182						
OUTPUT	240	182						

MODIFICATION TITLE: LIGHT ARMORED VEHICLE MOBILITY BLOCK IMPROVEMENT PROGRAM, (LAV-MBIP)

MODELS OF SYSTEMS AFFECTED: ALL LAVS

DESCRIPTION/JUSTIFICATION: The cornerstone of the LAV Mobility Block Improvement Program is the remanufacture of the diesel engines which have been operating in the Marine Corps existing LAV Fleet since the early 1980's. These old engines, commonly referred to as the "Green" engine, are no longer in production. However, they will be upgraded to the current Silver Series configuration which will provide improved fuel economy, quieter operation, and overall reduced operations and maintenance costs.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	1 Blk		1 Blk														0	
Installation Kits																		0.000
Install. Kits Nonrecurring		9.927		6.275														16.202
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment		0.192																0.192
Other		0.693		0.335														1.028
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt (Kits)																	0	0.000
(FY 1997) Eqpt (Kits)																	0	0.000
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(FY 2001) Eqpt (Kits)																	0	0.000
(FY 2002) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		10.812		6.610		0.000		0.000		0.000		0.000		0.000		0.000		17.422

METHOD OF IMPLEMENTATION: FIELD ADMIN LEAD-TIME: VAR MONTHS PRODUCTION LEAD-TIME: VAR MONTHS

CONTRACT DATES: FY 1996 VARIOUS FY 1997 VARIOUS FY 1998

DELIVERY DATES: FY 1996 VARIOUS FY 1997 VARIOUS FY 1998

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																																
OUTPUT																																

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: LAV RAM IMPROVEMENTS

MODELS OF SYSTEMS AFFECTED: ALL LAVS

DESCRIPTION/JUSTIFICATION: The LAV RAM Improvement Program consists of a 25mm Gun Barrel Bore Gauge, a Sub-Caliber Training Device, a Long Stroke Recoil Mechanism, a Drivers' Instrument Annunciator Panel, and other various LAV Upgrades.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Approved for Service Use

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	1 Blk		1 Blk		1Blk		1Blk		1 Blk		1 Blk		1 Blk		1 Blk		0	
Installation Kits																		0.000
Install. Kits Nonrecurring																		0.000
Equipment																		0.000
Equipment Nonrecurring		0.554		0.409		0.401		0.937		1.409		1.088		1.376		1.628		7.802
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other		0.114		0.203		0.199		0.473		0.295		0.233		0.286		0.338		2.141
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt (Kits)																	0	0.000
(FY 1997) Eqpt (Kits)																	0	0.000
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(FY 2001) Eqpt (Kits)																	0	0.000
(FY 2002) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.668		0.612		0.600		1.410		1.704		1.321		1.662		1.966	0	9.943

METHOD OF IMPLEMENTATION: FIELD ADMIN LEAD-TIME: VAR MONTHS PRODUCTION LEAD-TIME: VAR MONTHS

CONTRACT DATES: FY 1996 VARIOUS FY 1997 VARIOUS FY 1998

DELIVERY DATES: FY 1996 VARIOUS FY 1997 VARIOUS FY 1998

	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																																
OUTPUT																																

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY:	P-1 ITEM NOMENCLATURE:
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	LIGHT ARMORED VEHICLE AIR DEFENSE (LAV-AD)
	RCN: 023681

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 0.0	$ 0.0	$ 6.7	$ 0.0	$ 0.0	$ 0.0	$ 0.0	$ 0.0

The LAV-AD will provide a highly mobile air defense capability for LAV equipped forces and other rapid maneuver elements of the MAGTF. The LAV-AD will incorporate within the MAGTF and integrated ground bases a mobile air defense system capable of countering enemy air-to-surface threat systems, both rotary and fixed wing. The LAV-AD will include an air defense turret installed on the standard LAV chassis. FY 98 funds will provide for comprehensive, post- acceptance production testing.

Acquisition Objective: 17

BLI NR. 203900	P-1 SHOPPING LIST ITEM NO. 3 - PAGE NO. 1	EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME LIGHT ARMORED VEHICLE AIR DEFENSE (LAV-AD)	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION LOCKHEED-MARTIN ORD SYS BURLINGTON, VT	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	FY 1996 QTY TOTAL COST	FY 1997 UNIT COST	FY 1997 QTY TOTAL COST	FY 1998 UNIT COST	FY 1998 QTY TOTAL COST	FY 1999 UNIT COST	FY 1999 QTY TOTAL COST
LAV AIR DEFENSE IPT									
LAV-AD CONTRACT ITEMS FROM LOCKHEED-MARTIN							2026		
GOVT AGENCY SUPPORT (TARGETS, RANGES, INSTRUMENTATION, REPORTS)							4701		
TOTAL COST			0		0		6727		0

BLI NR. 203900	P-1 SHOPPING LIST ITEM NO. 3	PAGE NO. 2	EXHIBIT P-5

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY:	P-1 ITEM NOMENCLATURE:
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	MODIFICATION KITS (TRACKED VEHICLES)
	RCN: 027231

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY					0	0	0	0
COST (IN MILLIONS)	$ 16.8	$ 0.5	$ 4.5	$ 11.0	$ 17.9	$ 17.7	$ 21.5	$ 2.1

The following modifications to Marine Corps tracked vehicles are being procured in this budget line:

SELF CLEANING AIR FILTER (SCAF):
This system will improve the RAM of the M1A1 tank by pre-cleaning the air filters before air exits the cleaner for the engine. This modification lengthens the time between failure.

AVLB BRIDGE:
This program upgrades the scissor bridge from military load class (MLC) 60 to MLC 70 at full span.

TANK UPGRADE:
This program will upgrade 48 M1A1 Army tanks to Marine Corps configuration for transfer to Marine Corps units.

ARMORED VEHICLE DRIVERS THERMAL VIEWER ENHANCED (AVDVE):
Provides vehicles with capability to operate at night, during conditions of rain and fog as well as under conditions with battlefield obscuration present.

MUZZLE BORESIGHT DEVICE:
Item will allow M1A1 tank to achieve boresight in Garrison and on the battlefield. It will increase ability of tank to targets at range.

CONDUCT OF FIRE TRAINER (COFT)UPGRADE:
Upgrades COFT device to new graphics mode, current computer technology. This will increase the usability and RAM for the system. It will allow for reduction of rounds used by tank battalions.

INBORE SUBCALIBER TRAINING DEVICE:
This is a training device that when applied to the M1A1 tank allows a .50 caliber round to simulate the firing of the tank maingun.

DUAL AXIS HEAD ASSEMBLY:
This program upgrades the M1A1 tanks' existing head assembly with the production head assembly from the M1A2 tank. This improves commonality with th US Army and the capability of the tank to track targets.

BUDGET ITEM JUSTIFICATION SHEET		DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES) RCN: 027231	

MODIFICATION TITLE	FY 1996	FY 1997	FY 1998	FY 1999
SCAF	8.180	0.456	3.724	
AVLB	2.769			
TANK UPGRADE	5.758			
AVDVE				5.200
MUZZLE BORESIGHT DEVICE			0.300	0.510
COFT				0.900
INBORE SUBCALIBER TRAINING DEVICE			0.384	
DUAL AXIS HEAD ASSEMBLY				4.332
CONTRACTOR SUPPORT SERVICES	0.065	0.024	0.075	0.023
TOTAL	16.772	0.480	4.483	10.965

BLI NR. 206300	P-1 SHOPPING LIST ITEM NO. 4 - PAGE NO. 2	EXHIBIT P-40

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES) RCN: 027231

MOD	INSTALLING AGENT	INSTALLATION	END ITEM
SELF CLEANING AIR FILTER (SCAF)	DEPOT/FIELD	BEGIN: AUG 96 END: NOV 97	M1A1 TANK
AVLB BRIDGE	MCLB ALBANY	BEGIN: AUG 97 END: SEP 97	AVLB
TANK UPGRADE	MCLB ALBANY	BEGIN: AUG 97 END: SEP 97	M1A1 TANK
ARMORED VEHICLE DRIVERS THERMAL VIEWER ENHANCED (AVDVE)	DEPOT/FIELD	BEGIN: OCT 99 END: SEP 00	M1A1/AAV/LAV/M88/AVLB
MUZZLE BORESIGHT DEVICE	DEPOT/FIELD	BEGIN: JAN 99 END: OCT 99	M1A1 TANK
CONDUCT OF FIRE TRAINER (COFT) UPGRADE	CONTRACTOR	BEGIN: JAN 99 END: SEP 99	COFT
INBORE SUBCALIBER TRAINING DEVICE	FIELD	BEGIN: DEC 98 END: SEP 99	M1A1 TANK
DUAL AXIS HEAD ASSEMBLY	FIELD	BEGIN: JAN 99 END: DEC 99	M1A1 TANK

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY:
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2

P-1 ITEM NOMENCLATURE:
MODIFICATION KITS - TRACKED VEHICLES
RCN: 27231

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 5.8	$ 0.0	$ 0.0	$ 0.0	$ 0.0	$ 0.0	$ 0.0	$ 0.0

This program will upgrade 48 M1A1 Army tanks to Marine Corps configuration for transfer to Marine Corps units.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME MODIFICATION KITS (TRACKED VEHICLES) (RCN 27231)	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	FY 1996 QTY TOTAL COST	FY 1997 UNIT COST	FY 1997 QTY TOTAL COST	FY 1998 UNIT COST	FY 1998 QTY TOTAL COST	FY 1999 UNIT COST	FY 1999 QTY TOTAL COST
SELF CLEANING AIR FILTER	A	37523	218 8180	38000	12 456	38000	98 3724		
CONTRACTOR SUPPORT SVCS			65		24		75		
AVLB BRIDGE	A	92307	30 2769						
TANK UPGRADE	A	119958	48 5758						
AVDVE	A							20000	260 5200
MUZZLE BORESIGHT DEVICE	A					2000	150 300	2000	255 510
CONDUCT OF FIRE TRAINER	A							150000	6 900
INBORE SUBCALIBER TRAINING DEVICE	A					6000	64 384		
DUAL AXIS HEAD ASSEMBLY	A							49793	87 4332
CONTRACTOR SUPPORT SVCS									23
Spares			(1196)		(0)		(109)		(0)
TOTAL COST			16772		480		4483		10965

BLI NR. 206300	P-1 SHOPPING LIST ITEM NO. 4	PAGE NO. 5	EXHIBIT P-5

PROCUREMENT HISTORY & PLANNING								DATE:		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2					P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES)			RCN: 027231		
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV RQRD	IF YES WHEN AVAIL
M1A1 SCAF										
FY 96	GEN DYNAM LAND WARREN, MI	SS/FFPO	TACOM	FEB 96	JULY 96	218	37,523	YES	NO	N/A
FY 97	GEN DYNAM LAND WARREN, MI	SS/FFPO	TACOM	FEB 97	MAR 97	12	38,000	YES	NO	N/A
FY 98	GEN DYNAM LAND WARREN, MI	SS/FFPO	TACOM	OCT 97	NOV 97	98	38,000	YES	NO	N/A
AVLB BRIDGE										
FY 96	MCLB, ALBANY,GA	ALLOTMENT	ALBANY	MAR 96	JAN 97	30	92,307	YES	NO	N/A
TANK UPGRADE (RES)	MCLB, ALBANY, GA	ALLOTMENT	ALBANY	OCT 95	JAN 96	48	119,958	YES	NO	N/A
FY 96	TACOM, WARREN, MI	MIPR	TACOM							
AVDVE										
FY 99	TEXAS INSTRUM MCKINNEY, TX	C/FFPO	CECOM	OCT 98	OCT 99	260	20,000	YES	NO	N/A
MUZZLE BORE DEV										
FY 98	ACALA	MIPR	TACOM	OCT 97	JAN 98	150	2,000	YES	NO	N/A
FY 99	ACALA	MIPR	TACOM	OCT 98	JAN 99	255	2,000	YES	NO	N/A
COFT UPGRADE										
FY 99	VARIOUS	C/FFP	STRICOM	NOV 98	JAN 99	6	150,000	YES	NO	N/A
INBORE SUBCAL										
FY 98	VARIOUS	MIPR	TACOM	OCT 97	JAN 98	64	6,000	YES	NO	N/A
DUAL AX HEAD (DAHA)										
FY 99	VARIOUS	MIPR	TACOM	OCT 98	JAN 99	87	49,793	YES	NO	N/A

REMARKS:

MODIFICATION TITLE: AVLB SCISSOR BRIDGE

MODELS OF SYSTEMS AFFECTED: AVLB

DESCRIPTION/JUSTIFICATION: This program upgrades the scissor bridge from military load class (MLC) 60 to MLC 70 at full span.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	30																30	
Installation Kits																		0.000
Install. Kits Nonrecurring																		0.000
Equipment																		0.000
Equipment Nonrecurring		2.769																2.769
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST	30	2.769		0.000		0.000		0.000		0.000		0.000		0.000		0.000	30	2.769

METHOD OF IMPLEMENTATION: DEPOT ADMIN LEAD-TIME: 6 MONTHS PRODUCTION LEAD-TIME: 9 MONTHS

CONTRACT DATES: FY 1996 MAR 96 FY 1997 FY 1998

DELIVERY DATES: FY 1996 JAN 97 FY 1997 FY 1998

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	30																															
OUTPUT					30																											

*NOTE: DEPOT IS A TURN KEY ACQUISITION.

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: SELF CLEANING AIR FILTER (SCAF)

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION/JUSTIFICATION: This system will improve the RAM of the M1A1 tank by pre-cleaning the air filters before air exits the cleaner for the engine. This modification lengthens the time between failure.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	218		12		98												328	
Installation Kits																		0.000
Install. Kits Nonrecurring		8.180		0.456		3.724												12.360
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other		0.065		0.024		0.075												0.164
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST	218	8.245	12	0.480	98	3.799		0.000		0.000		0.000		0.000		0.000	328	12.524

METHOD OF IMPLEMENTATION DEPOT/FIELD ADMIN LEAD-TIME: 5 MONTHS PRODUCTION LEAD-TIME: 4 MONTHS

CONTRACT DATES: FY 1996 FEB 96 FY 1997 FEB 97 FY 1998 OCT 97

DELIVERY DATES: FY 1996 JUL 96 FY 1997 MAR 97 FY 1998 NOV 97

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT				45	60	72	60	6	40	40	5																					
OUTPUT				45	60	72	60	6	40	40	5																					

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: ARMORED VEHICLE DRIVERS THERMAL VIEWER

MODELS OF SYSTEMS AFFECTED: M1A1 TANK/LAV/AAV/M88/AVLB

DESCRIPTION/JUSTIFICATION: Provides vehicles with capability to operate at night, during conditions of rain and fog as well as under conditions with battlefield obscuration present.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: MS III APR 97

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity							260										260	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring								5.200										5.200
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000		0.000	260	5.200		0.000		0.000		0.000		0.000	260	5.200

METHOD OF IMPLEMENTATION: FIELD/DEPOT ADMIN LEAD-TIME: 1 MONTHS PRODUCTION LEAD-TIME: 12 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 _____

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 _____

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																	60	60	60	80												
OUTPUT																					60	60	60	80								

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: MUZZLE BORESIGHT DEVICE

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION/JUSTIFICATION: Item will allow M1A1 tank to achieve boresight in Garrison and on the battlefield. It will increase ability of tank to engage targets at greater range.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity																	405	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring																		0.810
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000
		150		255														
			0.300		0.510													

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																		
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000	150	0.300	255	0.510		0.000		0.000		0.000		0.000	405	0.810

METHOD OF IMPLEMENTATION: Depot/Field ADMIN LEAD-TIME: 1 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 OCT 97

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 JAN 98

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																																
OUTPUT									50	50	50		100	100	55																	
													(END ITEMS)																			

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: CONDUCT OF FIRE TRAINER (COFT) UPGRADE

MODELS OF SYSTEMS AFFECTED: CONDUCT OF FIRE TRAINER FOR M1A1 TANK

DESCRIPTION/JUSTIFICATION: Upgrades COFT device to new graphics mode, current computer technology. This will increase the usability and RAM for the system. It will allow for reduction of rounds used by tank battalions.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity							6										6	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring								0.900										0.900
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support													4-15					0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																		
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000		0.000	6	0.900		0.000		0.000		0.000		0.000	6	0.900

METHOD OF IMPLEMENTATION: Contractor ADMIN LEAD-TIME: 2 MONTHS PRODUCTION LEAD-TIME: 1 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 _____

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 _____

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT													6																			
OUTPUT																6																

*NOTE: THIS IS A TURN KEY ACQUISITION.

MODIFICATION TITLE: INBORE SUBCALIBER TRAINING DEVICE

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION/JUSTIFICATION: This is a training device that when applied to the M1A1 tank allows a .50 caliber round to simulate the firing of the tank maingun. This will provide significant cost savings over the longterm as a .50 caliber round costs less than the $2,000.00 for a maingun round.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity					64												64	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring						0.384												0.384
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000	64	0.384		0.000		0.000		0.000		0.000		0.000	64	0.384

METHOD OF IMPLEMENTATION: FIELD ADMIN LEAD-TIME: 1 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 OCT 97

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 JAN 98

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																																
OUTPUT																																

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: DUAL AXIS HEAD ASSEMBLY

MODELS OF SYSTEMS AFFECTED: M1A1 TANK

DESCRIPTION/JUSTIFICATION: This program upgrades the M1A1 tanks' existing head assembly with the production head assembly from the M1A2 tank. This improves commonality with th US Army and the capability of the tank to track targets.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity							87										87	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring								4.332										4.332
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other								0.023										0.023
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt(Kits)																	0	0.000
(FY 1997) Eqpt(Kits)																	0	0.000
(FY 1998) Eqpt(Kits)																	0	0.000
(FY 1999) Eqpt(Kits)																	0	0.000
(FY 2000) Eqpt(Kits)																	0	0.000
(FY 2001) Eqpt(Kits)																	0	0.000
(FY 2002) Eqpt(Kits)																	0	0.000
(TO COMP) Eqpt(Kits)																	0	0.000
TOTAL INSTALLATION COST		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000		0.000	87	4.355		0.000		0.000		0.000		0.000	87	4.355

METHOD OF IMPLEMENTATION: FIELD/DEPOT ADMIN LEAD-TIME: 1 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 _____

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 _____

	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																																
OUTPUT													20	20	20	27																

PMC PRODUCTION SCHEDULE (4850) | DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES) | RCN: 027231

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 96 / CY: 95 OCT	NOV	DEC	CALENDAR YEAR: 96 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 97 OCT	NOV	DEC	CALENDAR YEAR: 97 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 98 OCT	NOV	DEC	CALENDAR YEAR: 98 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
SCAF	EA	MC	218							218					A					22	23	20	20	20	20	20	20	16	16	16	5																	
GENERAL DYNAMICS																																															
SCAF	EA	A	212							212	A					29	21	22	21	36	36	47																									
GENERAL DYNAMICS																																															
SCAF	EA	MC		12						12																		A	12																	
GENERAL DYNAMICS																																															
SCAF	EA	A		587						587												A	48	42	38	58	58	58	58	61	51	45	35	35													
GENERAL DYNAMICS																																															
SCAF	EA	MC			98					98																												A	20	20	20	20	18						
GENERAL DYNAMICS																																															
SCAF	EA	A			115					115																												35	40	40								
GENERAL DYNAMICS																																															

SHEET OF	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+
GENERAL DYNAMICS, WARREN MI	10	75	100	

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL	3	4	12	16
REORDER (Previous Source)	1	1	1	2

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. 4 - PAGE NO. 21

EXHIBIT P-21

PMC PRODUCTION SCHEDULE (4850) | DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES) | RCN: 027231

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 96 / CY: 95 OCT	NOV	DEC	CALENDAR YEAR: 96 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 97 OCT	NOV	DEC	CALENDAR YEAR: 97 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 98 OCT	NOV	DEC	CALENDAR YEAR: 98 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
AVLB BRIDGE MCLB ALBANY	EA	MC	30							30						A										7	6	7	6	4																	
SHEET OF											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+
MCLB,ALBANY, GA	5	10	20	

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL		6	9	15
REORDER (Previous Source)				

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. 4 - PAGE NO. 22

EXHIBIT P-21

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: ERR | P-1 ITEM NOMENCLATURE: ERR | RCN: ERR

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT
AVDVE	EA	MC		260						260

ITEM AND MANUFACTURER	FISCAL YEAR: 99 (CY: 98) OCT	NOV	DEC	CALENDAR YEAR: 99 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
AVDVE	A											

ITEM AND MANUFACTURER	FISCAL YEAR: 00 OCT	NOV	DEC	CALENDAR YEAR: 00 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
AVDVE	20	20	20	20	20	20	20	20	20	20	30	30

ITEM AND MANUFACTURER	FISCAL YEAR: 01 OCT	NOV	DEC	CALENDAR YEAR: 01 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
AVDVE													

SHEET OF

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+
TEXAS INSTRUMENTS, MCKINNEY TX	50	250	500	

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL	1	1	12	13
REORDER (Previous Source)	1	1	1	2

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
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EXHIBIT P-21

PMC PRODUCTION SCHEDULE (4850)

DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2

P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES)

RCN: 027231

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY						ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 98												FISCAL YEAR: 99												FISCAL YEAR: 00												LATER
			FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			CY: 97			CALENDAR YEAR: 98												CALENDAR YEAR: 99												CALENDAR YEAR: 00									
											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MUZZLE BORESIGHT DEV ACALA	EA	MC			150					150	A			15	10	15	10	15	10	15	10	15	10	15	10																						
MUZZLE BORESIGHT DEV ACALA	EA	MC				255				255													A			25	25	25	25	25	25	25	25	25	30												
							SHEET OF				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			REACHED
	MIN SUST	1-8-5	MAXIMUM	D+
US ARMY, ROCK ISLAND ARSENAL				

PROCUREMENT LEAD TIME	ADMIN LEAD TIME			
	PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL		1	2	3
REORDER (Previous Source)		1	2	3

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. 4 - PAGE NO. 24

EXHIBIT P-21

PMC PRODUCTION SCHEDULE (4850)

DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2

P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES)

RCN: 027231

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 99												FISCAL YEAR: 0												FISCAL YEAR: 1												LATER
											CY: 98			CALENDAR YEAR: 99												CALENDAR YEAR: 0												CALENDAR YEAR: 1									
											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CONDUCT OF FIRE TRAINER VARIOUS	EA	MC				6				6		A		2	2	2																															
							SHEET OF				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+
VARIOUS				

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL		2	1	3
REORDER (Previous Source)				

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
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EXHIBIT P-21

PMC PRODUCTION SCHEDULE (4850) | DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES) | RCN: 027231

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 98 / CY: 97 OCT	NOV	DEC	CALENDAR YEAR: 98 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 99 OCT	NOV	DEC	CALENDAR YEAR: 99 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 00 OCT	NOV	DEC	CALENDAR YEAR: 00 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
INBORE SUBCAL	EA	MC			64					64	A			10	10	10	10	5	5	5	5	4																									
SHEET OF											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL		1	2	3
REORDER (Previous Source)				

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. 4 - PAGE NO. 26

PMC PRODUCTION SCHEDULE (4850) DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MODIFICATION KITS (TRACKED VEHICLES) | RCN: 027231

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 99 CY: 98			CALENDAR YEAR: 99								
											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DUAL AXIS HEAD ASSEM						87				87	A			10	15	10	15	10	15	10	2	
									SHEET OF		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

ITEM AND MANUFACTURER	FISCAL YEAR: 00			CALENDAR YEAR: 00									FISCAL YEAR: 01			CALENDAR YEAR: 01									LATER
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
DUAL AXIS HEAD ASSEM																									
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 OCT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL		1	2	3
REORDER (Previous Source)				

REMARKS:

BLI NR. 206300

P-1 SHOPPING LIST
ITEM NO. 4 - PAGE NO. 27

EXHIBIT P-21

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY:	P-1 ITEM NOMENCLATURE:
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY BA 2	ITEMS LESS THAN $2 MIL TRACKED VEHICLES RCN: 0

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 0.0	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.0	$ 0.0

M1A1 Tank

Funding is provided to procure the Halon Recovery / Recharging System for the M1A1 Main Battle Tank.
The M1A1 Main Battle Tank will have the required equipment to recover unused Halon 1301 from fire suppression systems
and recharge the halon and nitrogen to ensure fire suppression and combat readiness.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY BA 2	B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN $2 MIL TRACKED VEHICLES	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	QTY TOTAL COST	FY 1997 UNIT COST	QTY TOTAL COST	FY 1998 UNIT COST	QTY TOTAL COST	FY 1999 UNIT COST	QTY TOTAL COST
HALON RECOVERY / RECHARGING SYSTEM FOR M1A1 TANK					96		99		99
SPARES					(69)				
TOTAL COST			0		96		99		99

BLI NR. 210500	P-1 SHOPPING LIST ITEM NO. 5 - PAGE NO. 2	EXHIBIT P-5

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MODIFICATION KITS (ARTILLERY & OTHER) RCN: 027232

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 0.1	$ 1.1	$ 1.8	$ 2.6	$ 1.7	$ 1.4	$ 1.2	$ 1.2

Missile Guidance System (MGS) for TOW:

Upgrades the missile tracking software to provide enhanced targeting and reliability to the TOW missile system.

Underwater Breathing Apparatus (UBA) Upgrade Kit:

This modification to the MK 25 Mod 2 standardizes the Marine Corps UBA to the Navy configuration. This modification improves safety and allows the diver additional underwater time, thereby improving the capability of accomplishing the mission.

Blank Firing Adapter (BFA) for the AAV Up Gun Weapons Station:

Currently the AAV does not have an operable BFA. This system provides a BFA so that the AAV can fire blank training ammunition from its .50 caliber machine gun.

Quick Change Barrel for the M2 .50 Caliber Heavy Machine Gun (HMG):

Provides a barrel for the M2 .50 caliber machine gun which eliminates the requirement to perform headspace and timing operations each time the barrel is changed. This modification also provides the M2 with a front sight and a safety.

Special Effects Small Arms Marking System (SESAMS):

This system provides a modification to Marine Corps small arms systems allowing them to accept the special effects marking ammunition. This system provides more realistic training by allowing Marines to actually shoot each other without hurting each other, thus providing a better indication of small arms effectiveness to the Marine.

Special Application Scoped Rifle (SASR) Modification:

Provides a modification to the bolt of the SASR (.50 cal) in order to prevent the firing pin from being assembled incorrectly and causing an accidental discharge. Also, this modification chrome lines the chamber to reduce wear and prevents the sticking of cartridge cases to the hot chamber.

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MODIFICATION KITS (ARTILLERY & OTHER) RCN: 027232

M240G Feed Tray Cover Enhancement:

Enhances the current feed tray cover in order to attach ancillary optical support equipment.

M198 Hydraulic Power Assist Kit (HyPak):

Provides the hydraulic motor and connections to the M198 Howitzer that will allow the wheels of the Howitzer to be raised and lowered.

MK 19 Grenade Machine Gun Safety Improvement/Fix:

Currently the U.S. Army is conducting an investigation to determine the best long term fix to the current MK 19 safety issues. The short term fix is currently in place. This line is set aside for the procurement of the safety modification kit once the Army determines the best method to pursue.

MODIFICATION	INSTALLING AGENT	INSTALLATION	END ITEM
Missile Guidance System	Depot	BEGIN: Nov 96 END: Feb 97	TOW Missile System
MK 25 UBA Enhancement Kit	Organizational	BEGIN: Feb 97 END: Jan 98	MK 25 Mod 2
Blank Firing Adapter	Organizational	BEGIN: Nov 97 END: Oct 98	.50 Caliber Machine Gun
.50 Cal Quick Change Barrel	Organizational	BEGIN: Jul 98 END: Jun 99	M2 .50 Caliber Machine Gun
SESAMS	Organizational	BEGIN: Apr 99 END: Mar 00	Small Arms Systems
SASR	Manufacturer	BEGIN: Sep 96 END: Aug 97	Small Arms Systems
M240G	Organizational	BEGIN: Jan 99 END: Dec 00	240 Machine Gun
M198 HYPAK	Depot	BEGIN: May 98 END: Apr 99	M198 Howitzer
MK19 Safety Fix	Organizational	BEGIN: Apr 99 END: Mar 00	MK 19

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MODIFICATION KITS (ARTILLERY & OTHER) RCN: 027232

($ in Millions)

MODIFICATION TITLE	FY 1996	FY 1997	FY 1998	FY 1999
Missile Guidance System		0.248		
MK 25 UBA Enhancement Kit		0.524		
Blank Firing Adapter		0.340		
.50 Cal Quick Change Barrel			0.806	0.400
SESAMS				0.384
SASR	0.109			
M240G				0.884
M198 HYPAK			0.981	0.169
MK19 Safety Fix				0.800
TOTAL	0.109	1.112	1.787	2.637

BLI NR. 220900	P-1 SHOPPING LIST ITEM NO. 6 - PAGE NO. 3	EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME MODIFICATION KITS (ARTILLERY AND OTHER)	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	FY 1996 QTY TOTAL COST	FY 1997 UNIT COST	FY 1997 QTY TOTAL COST	FY 1998 UNIT COST	FY 1998 QTY TOTAL COST	FY 1999 UNIT COST	FY 1999 QTY TOTAL COST
MGS (TOW) INSTALLATION	A				248				
MK 25 UBA ENH. KIT	A			1013	517 524				
Blank Firing Adapter	B			1376	247 340				
.50 CAL QCB	B					2500	322 806	2500	160 400
SESAMS	B							2400	160 384
SASR MODIFICATION	A	1028	106 109						
M240G FEED COVER	B							360	2455 884
M198 HYPAK	A					5200	188 981	5200	33 169
MK19 SAFETY FIX	B							500	1600 800
TOTAL COST			109		1112		1787		2637

BLI NR. 220900

P-1 SHOPPING LIST
ITEM NO. 6 PAGE NO. 4

EXHIBIT P-5

PROCUREMENT HISTORY & PLANNING										DATE:
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2					P-1 ITEM NOMENCLATURE: MODIFICATION KITS (ARTILLERY & OTHER) RCN: 027232					
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV RQRD	IF YES WHEN AVAIL
MK 25 UBA ENH. KIT										
FY 97	CRC GULF COAST	FFP-O	NSWC	JAN97	FEB97	517	1013	YES	NO	N/A
BFA										
FY 97	TBD	FFP	MCSC	JUN97	NOV97	247	1376	NO	NO	N/A
.50 CAL QCB										
FY 98	TBD	M-FFP-O1	MCSC	APR98	JUL98	322	2500	NO	NO	N/A
FY 99	TBD	M-FFP-O2	MCSC	APR99	JUL99	160	2500	NO	NO	N/A
SESAMS										
FY 99	TBD	FFP	MCSC	JAN99	APR99	160	2400	NO	NO	N/A
SASR MODIFICATION										
FY 96	Barrett Mfg., Inc. Murphreesbourgh, TN	FFP	MCSC	AUG96	SEP96	106	1028	YES	NO	N/A
M240G FEED COVER										
FY 99	TBD	FFP	MCSC	DEC98	JAN99	2455	360	YES	NO	N/A
M198 HYPAK										
FY 98	Rock Island Arsenal	FFP	ACALA	FEB98	MAY98	188	5200	YES	NO	N/A
FY 99	Rock Island Arsenal	FFP-01	ACALA	FEB99	MAY99	33	5200	YES	NO	N/A
MK19 SAFETY FIX										
FY 99	TBD	FFP	ACALA	JAN99	APR99	1600	500	NO	NO	N/A

REMARKS:

BLI NR. 220900

P-1 SHOPPING LIST
ITEM NO. 6 - PAGE NO. 5

EXHIBIT P-5A

MODIFICATION TITLE: MISSILE GUIDANCE SYSTEM (MGS) FOR TOW

MODELS OF SYSTEMS AFFECTED: TOW Missile System

DESCRIPTION/JUSTIFICATION: Upgrades the missile tracking software to provide enhanced targeting and reliability to the TOW missile system.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: Upgrade development has already been completed.

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity																	0	
Installation Kits																		0.000
Install. Kits Nonrecurring																		0.000
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt (Kits)																	0	0.000
(FY 1997) Eqpt (1550 Kits)			1550	0.248													1550	0.248
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(FY 2001) Eqpt (Kits)																	0	0.000
(FY 2002) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	1550	0.248	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1550	0.248
TOTAL PROCUREMENT COST		0.000		0.248		0.000		0.000		0.000		0.000		0.000		0.000		0.248

METHOD OF IMPLEMENTATION: DEPOT ADMIN LEAD-TIME: 2 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 NOV96 FY 1998 _____

DELIVERY DATES: FY 1996 _____ FY 1997 FEB97 FY 1998 _____

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT					387	387	387	389																								
OUTPUT						387	387	387	389																							

MODIFICATION TITLE: UNDERWATER BREATHING APPARATUS (UBA) MOD KIT

MODELS OF SYSTEMS AFFECTED: MK 25 MOD 2

DESCRIPTION/JUSTIFICATION: This modification to the MK 25 MOD 2 UBA standardizes the USMC UBA to the Navy configuration. This modification improves safety and allows the diver additional underwater time, thereby improving the capability of accomplishing the mission.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: The Naval Sea Systems Command has developed and approved this item. No further development is required.

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity			517														517	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring			0.524															0.524
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt (Kits)																	0	0.000
(FY 1997) Eqpt (Kits)																	0	0.000
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(FY 2001) Eqpt (Kits)																	0	0.000
(FY 2002) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000	517	0.524		0.000		0.000		0.000		0.000		0.000		0.000	517	0.524

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 1 MONTHS PRODUCTION LEAD-TIME: 1 MONTHS

CONTRACT DATES: FY 1996 FY 1997 JAN97 FY 1998

DELIVERY DATES: FY 1996 FY 1997 FEB97 FY 1998

INSTALLING SCHEDULE:	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	TOTAL
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
INPUT								
OUTPUT								

MODIFICATION TITLE: M198 HYDRAULIC POWER ASSIST KIT(HYPAK)

MODELS OF SYSTEMS AFFECTED: M198 Howitzer

DESCRIPTION/JUSTIFICATION: Provides a hydraulic method for raising and lowering the wheels of the Howitzer. This kit will make it up to 3 times faster than current manual emplacement/deplacement method.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: The U.S. Army at Rock Island has already developed this modification and is currently applying this modification to its Howitzers.

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity					188		33										221	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring					0.981		0.169											1.150
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY 1996) Eqpt (Kits)																	0	0.000
(FY 1997) Eqpt (Kits)																	0	0.000
(FY 1998) Eqpt (Kits)																	0	0.000
(FY 1999) Eqpt (Kits)																	0	0.000
(FY 2000) Eqpt (Kits)																	0	0.000
(FY 2001) Eqpt (Kits)																	0	0.000
(FY 2002) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000	188	0.981	33	0.169		0.000		0.000		0.000		0.000	221	1.150

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 5 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 FEB 98

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 MAY 98

INSTALLING SCHEDULE:	FY 1996				FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				FY 2002				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT																																
OUTPUT																																

MODIFICATION TITLE: MK19 SAFETY FIX

MODELS OF SYSTEMS AFFECTED: MK19

DESCRIPTION/JUSTIFICATION: Currently the U.S. Army is conducting an investigation to determine the best long term fix to the MK 19 safety issues. The short term fix is currently in place. This line is set aside for the procurement of the safety modification kit once the Army determines the best method to pursue.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: The U.S. Army is currently working on the development of a long term fix to the problem.

FINANCIAL PLAN: ($ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity							1600										1600	0.000
Installation Kits																		0.000
Install. Kits Nonrecurring							0.800											0.800
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY -2) Eqpt (Kits)																	0	0.000
(FY -1) Eqpt (Kits)																	0	0.000
(FY 0) Eqpt (Kits)																	0	0.000
(FY 1) Eqpt (Kits)																	0	0.000
(FY 2) Eqpt (Kits)																	0	0.000
(FY 3) Eqpt (Kits)																	0	0.000
(FY 4) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000		0.000	1600	0.800		0.000		0.000		0.000		0.000	1600	0.800

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 4 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY96 _____ FY 97 _____ FY 98 _____

DELIVERY DATES: FY96 _____ FY 97 _____ FY 98 _____

INSTALLING SCHEDULE:	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	TO COMP
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
INPUT								
OUTPUT								

MODIFICATION TITLE: M240G FEED TRAY COVER IMPROVEMENT

MODELS OF SYSTEMS AFFECTED: 240 Machine Gun

DESCRIPTION/JUSTIFICATION: Enhances the current feed tray cover by including the Picatinney Rail System which is used to attach ancillary optical support equipment.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: This item has already been accepted and tested by the Army and is currently being catalogued. This is an NDI item.

FINANCIAL PLAN: ($ in Millions)

	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity							2455										2455	
Installation Kits																		0.000
Install. Kits Nonrecurring							0.884											0.884
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 96 QTY	FY 96 $	FY 97 QTY	FY 97 $	FY 98 QTY	FY 98 $	FY 99 QTY	FY 99 $	FY 00 QTY	FY 00 $	FY 01 QTY	FY 01 $	FY 02 QTY	FY 02 $	TO COMP QTY	TO COMP $	TOTAL QTY	TOTAL $
INSTALLATION OF HARDWARE																	0	0.000
(FY -2) Eqpt (Kits)																	0	0.000
(FY -1) Eqpt (Kits)																	0	0.000
(FY 0) Eqpt (Kits)																	0	0.000
(FY 1) Eqpt (Kits)																	0	0.000
(FY 2) Eqpt (Kits)																	0	0.000
(FY 3) Eqpt (Kits)																	0	0.000
(FY 4) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000		0.000	2455	0.884		0.000		0.000		0.000		0.000	2455	0.884

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 3 MONTHS PRODUCTION LEAD-TIME: 1 MONTHS

CONTRACT DATES: FY 96 _____ FY 97 _____ FY 98 _____

DELIVERY DATES: FY 96 _____ FY 97 _____ FY 98 _____

INSTALLING SCHEDULE:	FY96 1 2 3 4	FY 97 1 2 3 4	FY98 1 2 3 4	FY 99 1 2 3 4	FY00 1 2 3 4	FY01 1 2 3 4	FY02 1 2 3 4	TOTAL 1 2 3 4
INPUT								
OUTPUT								

MODIFICATION TITLE: SPECIAL EFFECTS SMALL ARMS MARKING SYSTEM (SESAMS) TRAINING UPGRADE

MODELS OF SYSTEMS AFFECTED: Small Arms Systems

DESCRIPTION/JUSTIFICATION: This system provides a modification to Marine Corps small arms systems in order to allow them to accept the special effects marking ammunition. This system provides more realistic training by allowing Marines to actually shoot each other without hurting each other; thus providing a better indication of small arms effectiveness of the Marine.

DEVELOPMENTAL STATUS/
MAJOR DEVELOPMENT MILESTONES: This is an NDI item for which several manufacturer's systems will be tested and then down selected.

FINANCIAL PLAN: ($ in Millions)

	FY 96		FY97		FY 98		FY 99		FY 00		FY 01		FY 02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity							160	0.384									160	0.384
Installation Kits																		0.000
Install. Kits Nonrecurring																		0.000
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 96		FY97		FY98		FY99		FY00		FY01		FY02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																	0	0.000
(FY -2) Eqpt (Kits)																	0	0.000
(FY -1) Eqpt (Kits)																	0	0.000
(FY 0) Eqpt (Kits)																	0	0.000
(FY 1) Eqpt (Kits)																	0	0.000
(FY 2) Eqpt (Kits)																	0	0.000
(FY 3) Eqpt (Kits)																	0	0.000
(FY 4) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000		0.000		0.000	160	0.384		0.000		0.000		0.000		0.000	160	0.384

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 4 MONTHS PRODUCTION LEAD-TIME: 2 MONTHS

CONTRACT DATES: FY 96 _____ FY 97 _____ FY 98 _____

DELIVERY DATES: FY 96 _____ FY 97 _____ FY 98 _____

	FY96				FY 97				FY98				FY 99				FY 00				FY 01				FY 02				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT

OUTPUT

MODIFICATION TITLE: SPECIAL APPLICATION SCOPED RIFLE (SASR) MODIFICATION

MODELS OF SYSTEMS AFFECTED: Small Arms Systems

DESCRIPTION/JUSTIFICATION: Provides a safety modification to the bolt and the chamber to increase reliability.

DEVELOPMENTAL STATUS/ MAJOR DEVELOPMENT MILESTONES: The manufacturer has designed this modification himself and it is already in use by the U.S. Air Force and the U.S. Army.

FINANCIAL PLAN: ($ in Millions)

	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity	106																106	
Installation Kits																		0.000
Install. Kits Nonrecurring		0.109																0.109
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																		
(FY -2) Eqpt (Kits)																	0	0.000
(FY -1) Eqpt (Kits)																	0	0.000
(FY 0) Eqpt (Kits)																	0	0.000
(FY 1) Eqpt (Kits)																	0	0.000
(FY 2) Eqpt (Kits)																	0	0.000
(FY 3) Eqpt (Kits)																	0	0.000
(FY 4) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST	106	0.109		0.000		0.000		0.000		0.000		0.000		0.000		0.000	106	0.109

METHOD OF IMPLEMENTATION: MANUFACTURER ADMIN LEAD-TIME: 10 MONTHS PRODUCTION LEAD-TIME: 1 MONTHS

CONTRACT DATES: FY 96 AUG96 FY 97 FY 98

DELIVERY DATES: FY 96 SEP96 FY 97 FY 98

	FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				FY 02				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT

OUTPUT

MODIFICATION TITLE: BLANK FIRING ADAPTER FOR UPGUN WEAPONS STATION ON THE AAV

MODELS OF SYSTEMS AFFECTED: .50 Caliber Machine Gun used on the AAV

DESCRIPTION/JUSTIFICATION: Currently the AAV does not have an operational BFA. This system provides a BFA so that the AAV can fire blank training ammunition from its .50 cal machine gun.

DEVELOPMENTAL STATUS/ MAJOR DEVELOPMENT MILESTONES: Currently under testing and development by the Amphibious Vechicle Test Branch.

FINANCIAL PLAN: ($ in Millions)

	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity			247	0.340													247	0.340
Installation Kits																		0.000
Install. Kits Nonrecurring																		0.000
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
INSTALLATION OF HARDWARE																		
(FY -2) Eqpt (Kits)																	0	0.000
(FY -1) Eqpt (Kits)																	0	0.000
(FY 0) Eqpt (Kits)																	0	0.000
(FY 1) Eqpt (Kits)																	0	0.000
(FY 2) Eqpt (Kits)																	0	0.000
(FY 3) Eqpt (Kits)																	0	0.000
(FY 4) Eqpt (Kits)																	0	0.000
(TO COMP) Eqpt (Kits)																	0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
TOTAL PROCUREMENT COST		0.000	247	0.340		0.000		0.000		0.000		0.000		0.000		0.000	247	0.340

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 4 MONTHS PRODUCTION LEAD-TIME: 5 MONTHS

CONTRACT DATES: FY 96 _____ FY 97 JUN97 FY 98 _____

DELIVERY DATES: FY 96 _____ FY 97 NOV97 FY 98 _____

	FY 96				FY 97				FY 98				FY 99				FY 00				FY01				FY 02				TOTAL			
INSTALLING SCHEDULE:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT

OUTPUT

MODIFICATION TITLE: QUICK CHANGE BARREL FOR THE M2 .50 CAL

MODELS OF SYSTEMS AFFECTED: M2 .50 Caliber Machine Gun

DESCRIPTION/JUSTIFICATION: Provides a barrel for the M2 .50 caliber machine gun which eliminates the requirement to perform headspace and timing operations each time the barrel is changed. This modification also provides the M2 with a front sight and a safety.

DEVELOPMENTAL STATUS/ MAJOR DEVELOPMENT MILESTONES: These items are NDI and are in used in other NATO countries. Currently there are 3 manufacturers who make this item of which one will have to be chosen.

FINANCIAL PLAN: ($ in Millions)

	FY96		FY97		FY98		FY 99		FY00		FY 01		FY 02		TO COMP		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
RDT&E																	0	0.000
PROCUREMENT																	0	0.000
Kit Quantity					322		160										482	
Installation Kits																		0.000
Install. Kits Nonrecurring					0.806		0.400											1.206
Equipment																		0.000
Equipment Nonrecurring																		0.000
Engineering Change Orders																		0.000
Data																		0.000
Training Support																		0.000
Support Equipment																		0.000
Other																		0.000
Interim Contractor Support																		0.000

	FY 1996 QTY	$	FY 1997 QTY	$	FY 1998 QTY	$	FY 1999 QTY	$	FY 2000 QTY	$	FY 2001 QTY	$	FY 2002 QTY	TO COMP QTY	$	TOTAL QTY	$
INSTALLATION OF HARDWARE																0	0.000
(FY -2) Eqpt (Kits)																0	0.000
(FY -1) Eqpt (Kits)																0	0.000
(FY 0) Eqpt (Kits)																0	0.000
(FY 1) Eqpt (Kits)																0	0.000
(FY 2) Eqpt (Kits)																0	0.000
(FY 3) Eqpt (Kits)																0	0.000
(FY 4) Eqpt (Kits)																0	0.000
(TO COMP) Eqpt (Kits)																0	0.000
																0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0	0.000	0	0.000
TOTAL PROCUREMENT COST	0	0.000	0	0.000	322	0.806	160	0.400	0	0.000	0	0.000	0	0	0.000	482	1.206

METHOD OF IMPLEMENTATION: ORGANIZATIONAL ADMIN LEAD-TIME: 3 MONTHS PRODUCTION LEAD-TIME: 3 MONTHS

CONTRACT DATES: FY 1996 _____ FY 1997 _____ FY 1998 APR98

DELIVERY DATES: FY 1996 _____ FY 1997 _____ FY 1998 JUL98

INSTALLING SCHEDULE:	FY 1996 1 2 3 4	FY 1997 1 2 3 4	FY 1998 1 2 3 4	FY 1999 1 2 3 4	FY 2000 1 2 3 4	FY 2001 1 2 3 4	FY 2002 1 2 3 4	TOTAL 1 2 3 4
INPUT								
OUTPUT								

PMC PRODUCTION SCHEDULE (4850) | DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MODIFICATION KITS (ARTILLERY & OTHER) | RCN: 027232

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 97 CY: 96 OCT	NOV	DEC	CALENDAR YEAR: 97 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 98 OCT	NOV	DEC	CALENDAR YEAR: 98 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 99 OCT	NOV	DEC	CALENDAR YEAR: 99 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
MK 25 UBA ENH. KIT COSTAL SEA SYSTEMS	KT	MC		517					0	517				A	43	43	43	43	43	43	43	43	43	43	43	44																					
BFA TBD	EA	MC		247					0	247									A					20	20	20	20	20	21	21	21	21	21	21	21														
QCB TBD	EA	MC			322				0	322																			A			27	27	27	27	27	27	27	27	27	27	26	26				
						160			0	160																															A			13	13	13	121
SESAMS TBD	KT	MC				160																																			A			13	13	13	13	13	13	82
SASR MODIFICATION BARRETT MFG. INC.	KT	MC	106						20	86	20	20	20	20	6																																	
M240G FFED COVER TBD	EA	MC				2455			0	2455																																A	204	204	204	204	204	205	205	205	205	615
						55				55																																						
M198 HYPAK ROCK ISLAND ARSENAL	KT	MC			188				0	188																A			16	16	16	16	16	16	16	16	15	15	15	15								
						33			0	33																															A			15	15	3				
MK19 SAFETY FIX TBD	KT	MC				1600			0	1600																															A			133	133	133	133	133	133	802
			SHEET OF								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+
VARIOUS AND TO BE DETERMINED				

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 0CT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL				
REORDER (Previous Source)				

REMARKS:

BLI NR. 220900

P-1 SHOPPING LIST ITEM NO. 6 PAGE NO. - 24

EXHIBIT P-21

PMC PRODUCTION SCHEDULE (4850) | DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MODIFICATION KITS (ARTILLERY & OTHER) | RCN: 027232

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY						ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 00											
			FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			CY: 99			CALENDAR YEAR: 00								
											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
QCB TBD	EA	MC				121			39	121	13	13	13	13	13	13	13	13	17			
SESAMS TBD	KT	MC				160			78	82	13	13	14	14	14	14						
M240G FEED COVER TBD	EA	MC				2485			1870	615	205	205	205									
MK19 SAFETY FIX TBD	KT	MC				1600			798	802	133	133	134	134	134	134						

ITEM AND MANUFACTURER	FISCAL YEAR: 01												FISCAL YEAR: 02												LATER
	CALENDAR YEAR: 00			CALENDAR YEAR: 01												CALENDAR YEAR: 02									
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
QCB TBD																									
SESAMS TBD																									
M240G FEED COVER TBD																									
MK19 SAFETY FIX TBD																									

SHEET OF | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			REACHED
	MIN SUST	1-8-5	MAXIMUM	D+
TBD				

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	ADMIN LEAD TIME AFTER 1 0CT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL				
REORDER (Previous Source)				

REMARKS:

BLI NR. 220900

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
6 - 25

EXHIBIT P-21

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY:	P-1 ITEM NOMENCLATURE:
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	ITEMS LESS THAN $2 MILLION (ALL OTHER)
	RCN: 029502

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 2.0	$ 0.1	$ 0.8	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1

THIS IS A ROLL UP LINE WHICH CONTAINS ITEMS THAT ARE UNDER $2 M.

RIFLE TEAM EQUIPMENT (RTE):

THESE ARE PRINCIPAL ITEMS PROCURED TO REPLACE WEAPONS THAT HAVE BEEN WORN OUT IN SERVE AND THAT ARE NO LONGER REPAIRABLE.
THESE ITEMS ARE REQUIRED TO SUPPORT THE MARINE CORPS SHOOTING TEAMS AUTHORIZED TO COMPETE WITH OTHER SERVICES IN COMPETITIVE SHOOTING MATCHES.

MUZZLE VELOCITY SYSTEM (MVS):

FUNDS ARE IN SUPPORT OF THE MVS FIELDING EFFORT.

CLOSE QUARTERS BATTLE WEAPON (CQBW):

THIS FUNDING PROFILE INCLUDES PROCUREMENT OF THE M4A1 CARBINE AND RAIL INTERFACE SYSTEM WHICH MAKE UP THE CLOSE QUARTERS BATTLE WEAPON.

LAV-AD:

FUNDING IS PROVIDED FOR ENGINEERING CHANGE ORDERS AND PRODUCTION SUPPORT FOR THE LAV-AD.

M1A1 TANK:

FUNDING IS PROVIDED TO PROCURE THE HALON RECOVERY/RECHARGING SYSTEM FOR THE M1A1 MAIN BATTLE TANK.
THE M1A1 MAIN BATTLE TANK WILL HAVE THE REQUIRED EQUIPMENT TO RECOVER UNUSED HALON 1301 FROM FIRE SUPRESSION SYSTEMS AND RECHARGE THE HALON AND NITROGEN TO ENSURE FIRE SUPPRESSION AND COMBAT READINESS.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN $2 MILLION (ALL OTHER)	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	QTY TOTAL COST	FY 1997 UNIT COST	QTY TOTAL COST	FY 1998 UNIT COST	QTY TOTAL COST	FY 1999 UNIT COST	QTY TOTAL COST
RIFLE TEAM EQUIPMENT									
MISC. NEW WEAPONS AND EQUIPMENT	A		118		122		96		107
MUZZLE VELOCITY SYSTEM	A		165						
M4A1 COLT FIREARMS	N / A					587	600 352		
RAIL INTERFACE SYSTEM KNIGHT ARMAMENT	N / A					603	600 362		
ENGINEERING CHANGE ORDERS AND PRODUCTION SUPPORT FOR LAV AIR DEFENSE			1580						
HALON RECOVERY/RECHARGING SYSTEM FOR M1A1 TANK			99						
TOTAL COST			1962		122		810		107

BLI NR. 221000	P-1 SHOPPING LIST ITEM NO. 7 - PAGE NO. 2	EXHIBIT P-5

	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MARINE ENHANCEMENT PROGRAM RCN: 142596

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (IN MILLIONS)	$ 0.0	$ 7.7	$ 1.5	$ 2.1	$ 1.8	$ 11.3	$ 11.6	$ 1.8

The Marine Enhancement Program (MEP) is a Congressionally initiated program started in FY 90 which provides for low visibility, low cost items. It focuses on the equipment which will benefit the individual Marine by reducing the load, increasing survivability, enhancing safety and improving combat effectiveness. The emphasis of this program is on non-developmental (NDI) and commercially available items which can be quickly evaluated and fielded. This program is coordinated with the Army's Soldier Enhancement Program and the Special Operations Command.

The programs funded in this line include the following:

Medium Machine Gun Tripod Lightweight (MMGT, LW). A lightweight replacement for the M123 steel tripod and traversing and elevation (T&E) that have been in use since the days of the .30 caliber machine gun. Designed to lighten the load of the machine gun team by reducing the weight of the tripod and T&E mechanism by more than half.

This item is "Code B"
Acquisition Objective (AO): 5200
FY 97: 5200 = 100% AO

Heavy Machine Gun Tripod, Lightweight (HMGT, LW). A lightweight tripod to replace the M3 HMG tripod currently used by the M2 .50 caliber Heavy Machine Gun and the Mk 19 Grenade Machine Gun (GMG). Designed to lighten the load for the individual Marine by decreasing the weight at least 28 lbs. Includes improving the Machine Gun Traverse & Elevation (T&E) mechanism. Will decrease gunner/crew response time and add service life by 20000 to 25000 rounds. The lighter tripod also enhances employment of the M2 and the Mk 19.

This item is "Code B"
Acquisition Objective (AO): 6088 for entire Marine Corps; AO for MEP (Infantry Only) is 1406
FY 98: 703 = 50 % MEP AO
FY 99: 1406 = 100 % MEP AO

MK 93 Dual Mount. Improved mounting system for both the M2 .50 caliber Heavy Machine Gun (HMG) and the MK19 Grenade Machine Gun (GMG). Will enhance the capabilities of the HMG platoon by giving them greater flexibility, accuracy, and lethality on the battlefield. Designed to attenuate recoil, improve accuracy, decrease gunner/crew response time, reduce logistical burden, and provide ammunition savings. Replaces the Mk64 cradle currently used to mount the M2 HMG and the Mk19 GMG.

This item is "Code A"
Acquisition Objective (AO): 6088 for entire Marine Corps; AO for MEP (Infantry Only) is 1406
FY 96 1406 = 100 % of MEP AO

BUDGET ITEM JUSTIFICATION SHEET	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: MARINE ENHANCEMENT PROGRAM RCN: 142596

Designated Marksman Rifle (DMR). Precision, semiautomatic, 7.62mm NATO weapon system (rifle, ammunition, sight mount, and optical device), that will compliment the capabilities of the M40A1 Sniper Rifle (same caliber) better then the current M16A2. Designed to extend the range capabilities, add flexibility, and enhance survivability of Designated Marksmen of the Fleet Anti-terrorist Security Teams (FAST) of the Security Battalion, military police Special Response Teams (SRT), and the second sniper in the Marine Corps two man Scout Sniper Team.

This item is "Code B"
Acquisition Objective (AO): 588
FY 97 547 = 85.6 % AO
FY 98 588 = 100 %

Joint Service Combat Shotgun. 12 gauge, semiautomatic, compact, lightweight weapon. It will be configured with low light level rifle-type sights and a surface which will mount current and developmental day and night sighting devices. Will provide a common weapon for all the services that will enhance the individual's combat effectiveness for use in the execution of special operations and security missions; substantial improvements in performance over existing shotguns in the area of supply, maintenance, and training support standardization; and increased levels of reliability and shooter confidence.

This item is "Code B"
Acquisition Objective (AO): 4815
FY 98 913 = 19.0 % AO
FY 99 - 01 4815 = 100 % AO

Divers Propulsion Device (DPD). Compliments the already fielded Underwater Breathing Apparatus (UBA). The DPD pulls a Recon Diver under the water for distances of up to 10,000 meters in order to clandestinely insert a team on the beach. The DPD greatly enhances a Marine divers survivability by reducing the risk of detection by the enemy, increases the safety of the Diver by reducing fatigue and the possibility of fatal oxygen toxicity incidences.

This item is "Code A"
Acquisition Objective (AO): 126
FY 97 126 = 100 % AO

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME MARINE ENHANCEMENT PROGRAM (MEP)	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	QTY TOTAL COST	FY 1997 UNIT COST	QTY TOTAL COST	FY 1998 UNIT COST	QTY TOTAL COST	FY 1999 UNIT COST	QTY TOTAL COST
MEDIUM MACHINE GUN TRIPOD LIGHTWEIGHT	B			797	5200 4147				
HEAVY MACH. GUN TRIPOD, LIGHTWEIGHT	B					971	703 683	971	703 683
DESIGNATED MARKSMANSHIP RIFLE	B			2190	547 1198	2190	41 90		
SHOTGUN	B					810	913 740	810	1766 1431
DIVERS' PROPULSION DEVICE	A			18547	126 2337				
TOTAL COST			0		7682		1513		2114

BLI NR. 221100	P-1 SHOPPING LIST ITEM NO. 8 - PAGE NO. 3	EXHIBIT P-5

PROCUREMENT HISTORY & PLANNING										DATE:
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2					P-1 ITEM NOMENCLATURE: MARINE ENHANCEMENT PROGRAM RCN: 142596					
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV RQRD	IF YES WHEN AVAIL
MED.MACH.GUN TRIPOD, LW.										
FY 97	TBD	FFP	NWSC, CRANE	APR97	JUL97	5200	797	Y	N	N/A
H.MACH GUN TRIPOD, LW										
FY 98	TBD	FFP	NWSC, CRANE	FEB 98	JUN 98	703	971	Y	N	N/A
FY 99	TBD	FFP-O1	NWSC, CRANE	FEB 99	JUN 99	703	971	Y	N	N/A
D. MARKSMANSHIP RIFLE										
FY 97	TBD	FFP	MCSC	JUL 97	OCT 97	547	2190	N	N	N/A
FY 98	TBD	FFP-O1	MCSC	JUL 98	OCT 98	41	2190	N	N	N/A
SHOTGUN										
FY 98	TBD	FFP	MCSC	DEC97	MAR98	913	810	N	N	N/A
FY 99	TBD	FFP-O1	MCSC	DEC98	MAR99	1766	810	N	N	N/A
DIVERS' PROPULSION DEV										
FY 97	CRC GULF COAST PANAMA CITY, FL	FFP	NSWC INDIAN HEAD, MD	JAN97	FEB97	126	18547	Y	N	N/A

REMARKS:

"CODE B" ITEM DESCRIPTION			DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2		P-1 ITEM NOMENCLATURE: MEDIUM MACHINE GUN TRIPOD, LIGHTWEIGHT MARINE ENHANCEMENT PROGRAM RCN: 142596	

1. CURRENT DEVELOPMENT AND TEST STATUS		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
a. Developmental Test & Evaluation (DT&E)	Plan/Actual	1/97	4/95	
b. Initial Operational Test & Evaluation (IOT&E)	Plan/Actual			REDESIGN TO INCREASE
c. Operational Test & Evaluation (OT&E)	Plan/Actual	3/97	1/97	PERFORMANCE
d. Available Date of Technical Data Package (TDP) or Performance Specifications	Plan/Actual	3/97	2/97	

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 3/97

3. EQUIPMENT ITEM(S) TO BE REPLACED: M122 TRIPOD

4. EXTENT OF IMPROVEMENT OVER EQUIPMENT ITEM(S) TO BE REPLACED: THIS REDESIGN OF THE TRIPOD USES ALUMINUM VICE STEEL THEREBY LIGHTENING THE LOAD FOR THE INDIVIDUAL MARINE

5. DEVELOPMENT CONTRACT INFORMATION (RDT&E Funding Profile - $ in Millions)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THROUGH PY (FY1996)	CY (FY1997)	BY (FY1998)	BEYOND BY
NWSC, CRANE	CRANE, IN		$ 0.460	$ 0.057	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
TOTAL RDT&E FUNDING			$ 0.460	$ 0.057	$ 0	$ 0

REMARKS:

BLI NR. 221100

P-1 SHOPPING LIST
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EXHIBIT P-19

"CODE B" ITEM DESCRIPTION			DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2		P-1 ITEM NOMENCLATURE: HEAVY MACHINE GUN TRIPOD, LW MARINE ENHANCEMENT PROGRAM (MEP) RCN: 0	

1. CURRENT DEVELOPMENT AND TEST STATUS		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
a. Developmental Test & Evaluation (DT&E)	Plan/Actual	3/97		
b. Initial Operational Test & Evaluation (IOT&E)	Plan/Actual			
c. Operational Test & Evaluation (OT&E)	Plan/Actual	6/97		
d. Available Date of Technical Data Package (TDP) or Performance Specifications	Plan/Actual	7/97		

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 2/98

3. EQUIPMENT ITEM(S) TO BE REPLACED: M3 HMG TRIPOD

4. EXTENT OF IMPROVEMENT OVER EQUIPMENT ITEM(S) TO BE REPLACED: THIS REDESIGN OF THE TRIPOD USES ALUMINUM VICE STEEL THEREBY LIGHTENING THE LOAD FOR THE INDIVIDUAL MARINE

5. DEVELOPMENT CONTRACT INFORMATION (RDT&E Funding Profile - $ in Millions)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	Through FY 1996	FY 1997	BY (FY) FY 1998	BEYOND BY
NWSC, CRANE	CRANE, IN		$ 0.270	$ 0.680	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
TOTAL RDT&E FUNDING			$ 0.270	$ 0.680	$ 0	$ 0

REMARKS:

BLI NR. $

P-1 SHOPPING LIST
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EXHIBIT P-19

"CODE B" ITEM DESCRIPTION			DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2		P-1 ITEM NOMENCLATURE: DESIGNATED MARKSMANSHIP RIFLE MARINE ENHANCEMENT PROGRAM (MEP) RCN: 0	

1. CURRENT DEVELOPMENT AND TEST STATUS

		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
a. Developmental Test & Evaluation (DT&E)	Plan/Actual	5/96	5/96	SEVERE WEATHER
b. Initial Operational Test & Evaluation (IOT&E)	Plan/Actual	4/97	10/96	
c. Operational Test & Evaluation (OT&E)	Plan/Actual	5/97	12/96	
d. Available Date of Technical Data Package (TDP) or Performance Specifications	Plan/Actual	12/96	12/96	

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 6/97

3. EQUIPMENT ITEM(S) TO BE REPLACED: M16A2 CARRIED BY SECOND MAN IN SNIPER TEAM

4. EXTENT OF IMPROVEMENT OVER EQUIPMENT ITEM(S) TO BE REPLACED:

THE DMR WILL PROVIDE GREATER RANGE AND LETHALITY
FOR THE DESIGNATED MARKSMAN.

5. DEVELOPMENT CONTRACT INFORMATION (RDT&E Funding Profile - $ in Millions)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	Through FY 1996	FY 1997	FY 1998	BEYOND BY
			$ 0.502	$ 0.040	$ 0	$ 0
			$	$	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
TOTAL RDT&E FUNDING			$ 0.502	$ 0.040	$ 0	$ 0

REMARKS:

BLI NR. $

P-1 SHOPPING LIST
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EXHIBIT P-19

"CODE B" ITEM DESCRIPTION			DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2		P-1 ITEM NOMENCLATURE: SHOTGUN MARINE ENHANCEMENT PROGRAM (MEP) RCN: 0	

1. CURRENT DEVELOPMENT AND TEST STATUS

		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
a. Developmental Test & Evaluation (DT&E)	Plan/Actual	1/97		
b. Initial Operational Test & Evaluation (IOT&E)	Plan/Actual	7/97		
c. Operational Test & Evaluation (OT&E)	Plan/Actual	8/97		
d. Available Date of Technical Data Package (TDP) or Performance Specifications	Plan/Actual	3/97		

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 9/97

3. EQUIPMENT ITEM(S) TO BE REPLACED: M870 SHOTGUN

4. EXTENT OF IMPROVEMENT OVER EQUIPMENT ITEM(S) TO BE REPLACED:

THE COMBAT SHOTGUN WILL PROVIDE SUBSTANTIAL IMPROVEMENTS IN PERFORMANCE AND MODULARITY OVER THE EXISTING SYSTEMS AND AMMUNITION. BY STANDARDIZING SUPPLY, MAINTENANCE, TRAINING, AND SUPPORT WHILE MAINTAINING INCREASED LEVELS OF RELIABILITY AND SHOOTER CONFIDENCE.

5. DEVELOPMENT CONTRACT INFORMATION (RDT&E Funding Profile - $ in Millions)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	Through FY 1996	CY (FY) 1997	BY (FY) 1998	BEYOND BY
			$ 0.877	$ 0	$ 0	$ 0
			$	$	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
TOTAL RDT&E FUNDING			$ 0.877	$ 0	$ 0	$ 0

REMARKS:

BLI NR. $

P-1 SHOPPING LIST
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EXHIBIT P-19

PMC PRODUCTION SCHEDULE (4850) | DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MARINE ENHANCEMENT PROGRAM | RCN: 142596

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 97 CY: 96 OCT	NOV	CALENDAR YEAR: 97 DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 98 OCT	NOV	CALENDAR YEAR: 98 DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FISCAL YEAR: 99 OCT	NOV	CALENDAR YEAR: 99 DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	LATER
MMGT, LW TBD	EA	MC		5200					0	5200							A			433	433	433	433	433	433	433	433	434	434	434	434																
HMGT, LW TBD	EA	MC			703				0	703														A			58	58	58	58	58	59	59	59	59	59	59	59											
HMGT, LW TBD	EA	MC				703			0	703																										A			58	58	58	58	58	59	59	295
DMR TBD	EA	MC		547					0	547			A			45	45	45	45	45	46	46	46	46	46	46	46																						
DMR TBD	EA	MC			41				0	41																A		41																				
SHOTGUN TBD	EA	MC			913				0	913																A		76	76	76	76	76	76	76	76	76	76	76	77										
SHOTGUN TBD	EA	MC				1766			0	1766																												A			147	147	147	147	147	147	147	737
DPD COSTAL SYSTEMS STATION	EA	MC		126					0	126				A	6	24	48	48																														
			SHEET 1 OF 2								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES MIN SUST	1-8-5	MAXIMUM	REACHED D+
VARIOUS AND TBD				

PROCUREMENT LEAD TIME	ADMIN LEAD TIME PRIOR 1 OCT	AFTER 1 0CT	MANU-FACTURING TIME	TOTAL AFTER 1 OCT
INITIAL				
REORDER (Previous Source)				

REMARKS:

BLI NR. 221100

P-1 SHOPPING LIST ITEM NO. 8 PAGE NO. 9

PMC PRODUCTION SCHEDULE (4850) DATE:

BUDGET ACTIVITY: PROCUREMENT MARINE CORPS/BUDGET ACTIVITY: 2 | P-1 ITEM NOMENCLATURE: MARINE ENHANCEMENT PROGRAM | RCN: 142596

ITEM AND MANUFACTURER	U/M	SERV	PROGRAM QUANTITY						ACC PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR: 00											
											CY: 00			CALENDAR YEAR: 01								
			FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
HMGT, LW TBD	EA	MC				703			408	295	59	59	59	59	59							
SHOTGUN TBD	EA	MC				1766			1029	737	147	147	147	148	148							

ITEM AND MANUFACTURER	FISCAL YEAR: 01												FISCAL YEAR: 02												LATER
				CALENDAR YEAR: 02												CALENDAR YEAR: 03									
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
HMGT, LW TBD																									
SHOTGUN TBD																									

SHEET 2 OF 2 | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			REACHED
	MIN SUST	1-8-5	MAXIMUM	D+
VARIOUS AND TBD				

PROCUREMENT LEAD TIME	ADMIN LEAD TIME		MANU-FACTURING TIME	TOTAL AFTER 1 OCT
	PRIOR 1 OCT	AFTER 1 OCT		
INITIAL				
REORDER (Previous Source)				

REMARKS:

BLI NR. 221100

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
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EXHIBIT P-21

ASSET DYNAMICS		DATE:
TAMCN/DODIC: E1121	ITEM NAME: MEDIUM MACHINE GUN TRIPOD, LIGHTWEIGHT	
ACQUISITION OBJECTIVE: 5,200	RCN:	

	ENDING INVENTORY 30 SEP 1995	FY 1996	FY 1997	FY 1998	FY 1999
GAINS:					
*FY BUDGET			5200		
*OTHER					
TOTAL		0	5200	0	0
LOSSES:					
*COMBAT USMC					
*COMBAT ALLIES					
*PEACETIME					
*WASHOUT					
*SALES					
*OTHER					
TOTAL		0	0	0	0
NET CHANGE (+/-)		0	5200	0	0
ASSET POSITION:					
*STD SERVICEABLE					
*STD UNSERVICEABLE			5200		
*SUB SERVICEABLE					
*SUB UNSERVICEABLE					
TOTAL	0	0	5200	5200	5200
$M VALUE		$	$ 4.2	$	$
% A/O ON HAND/FUNDED	0 %	0 %	100 %	100 %	100 %

COMMENTS:	FY 1998 RECOMMENDED BUY - QUANTITY: 0 VALUE: $ 0 M FY 1999 RECOMMENDED BUY - QUANTITY: 0 VALUE: $ 0 M

BLI NR. 221100	P-1 SHOPPING LIST ITEM NO. 8 - PAGE NO. 11	EXHIBIT P-20A

ASSET DYNAMICS		DATE:
TAMCN/DODIC: E1115	ITEM NAME: HEAVY MACHINE GUN TRIPOD, LIGHTWEIGHT	
ACQUISITION OBJECTIVE: 6,088	RCN:	

	ENDING INVENTORY 30 SEP 1995	FY 1996	FY 1997	FY 1998	FY 1999
GAINS:					
*FY BUDGET				703	703
*OTHER					
TOTAL		0	0	703	703
LOSSES:					
*COMBAT USMC					
*COMBAT ALLIES					
*PEACETIME					
*WASHOUT					
*SALES					
*OTHER					
TOTAL		0	0	0	0
NET CHANGE (+/-)		0	0	703	703
ASSET POSITION:					
*STD SERVICEABLE				703	1406
*STD UNSERVICEABLE					
*SUB SERVICEABLE					
*SUB UNSERVICEABLE					
TOTAL	0	0	0	703	1406
$M VALUE		$	$	$ 0.7	$ 1.4
% A/O ON HAND/FUNDED	0.0 %	0.0 %	0.0 %	11.5 %	23.1 %

COMMENTS:
BUYS WERE MADE FOR INFANTRY UNITS ONLY BECAUSE OF NATURE OF FUNDING. FUNDS MUST BE IDENTIFIED TO FIELD THE REMAINING TRIPODS TO THE REST OF THE MARINE CORPS.

FY 1998 RECOMMENDED BUY - QUANTITY: 703
VALUE: $ 0.7 M
FY 1999 RECOMMENDED BUY - QUANTITY: 703
VALUE: $ 0.7 M

DATE:

TAMCN/DODIC: E0311
ACQUISITION OBJECTIVE: 588

ITEM NAME: DESIGNATED MARKSMANSHIP RIFLE
RCN:

	ENDING INVENTORY 30 SEP 1995	FY 1996	FY 1997	FY 1998	FY 1999
GAINS:					
*FY BUDGET			547	41	
*OTHER					
TOTAL		0	547	41	0
LOSSES:					
*COMBAT USMC					
*COMBAT ALLIES					
*PEACETIME					
*WASHOUT					
*SALES					
*OTHER					
TOTAL		0	0	0	0
NET CHANGE (+/-)		0	547	41	0
ASSET POSITION:					
*STD SERVICEABLE			547	588	
*STD UNSERVICEABLE					
*SUB SERVICEABLE					
*SUB UNSERVICEABLE					
TOTAL	0	0	547	588	588
$M VALUE		$	$ 1.2	$ 0.1	$
% A/O ON HAND/FUNDED	0.0 %	0.0 %	93.0 %	100.0 %	100.0 %

COMMENTS:

FY 1998 RECOMMENDED BUY - QUANTITY: 41
VALUE: $ 0.1 M
FY 1999 RECOMMENDED BUY - QUANTITY: 0
VALUE: $ 0 M

BLI NR. 221100

P-1 SHOPPING LIST
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EXHIBIT P-20A

ASSET DYNAMICS					DATE:
TAMCN/DODIC: E1760			ITEM NAME: SHOTGUN		
ACQUISITION OBJECTIVE: 4,815			RCN:		
	ENDING INVENTORY 0	0	0	P-1 ITEM NOMENCLATURE: 0	
GAINS:					
*FY BUDGET				913	1766
*OTHER					
TOTAL		0	0	913	1766
LOSSES:					
*COMBAT USMC					
*COMBAT ALLIES					
*PEACETIME					
*WASHOUT					
*SALES					
*OTHER					
TOTAL		0	0	0	0
NET CHANGE (+/-)		0	0	913	1766
ASSET POSITION:					
*STD SERVICEABLE				913	2679
*STD UNSERVICEABLE					
*SUB SERVICEABLE					
*SUB UNSERVICEABLE					
TOTAL	0	0	0	913	2679
$M VALUE		$	$	$ 0.7	$ 1.4
% A/O ON HAND/FUNDED	0.0 %	0.0 %	0.0 %	19.0 %	55.6 %

COMMENTS:	FY 0 RECOMMENDED BUY - QUANTITY: 913 VALUE: $ 0.7 M FY 1 RECOMMENDED BUY - QUANTITY: 1766 VALUE: $ 1.4 M

BLI NR. 0	P-1 SHOPPING LIST ITEM NO. 8 - PAGE NO. 14	EXHIBIT P-20A

ASSET DYNAMICS | DATE:

TAMCN/DODIC: C4547
ACQUISITION OBJECTIVE: 126

ITEM NAME: DIVERS' PROPULSION DEVICE
RCN:

	ENDING INVENTORY 0	0	0	P-1 ITEM NOMENCLATURE: 0	
GAINS:					
*FY BUDGET			126		
*OTHER					
TOTAL		0	126	0	0
LOSSES:					
*COMBAT USMC					
*COMBAT ALLIES					
*PEACETIME					
*WASHOUT					
*SALES					
*OTHER					
TOTAL		0	0	0	0
NET CHANGE (+/-)		0	126	0	0
ASSET POSITION:					
*STD SERVICEABLE			126		
*STD UNSERVICEABLE					
*SUB SERVICEABLE					
*SUB UNSERVICEABLE					
TOTAL	0	0	126	126	126
$M VALUE		$	$ 2.3	$	$
% A/O ON HAND/FUNDED	0.0 %	0.0 %	100.0 %	100.0 %	100.0 %

COMMENTS:

FY 0 RECOMMENDED BUY - QUANTITY: 0
VALUE: $ 0 M
FY 1 RECOMMENDED BUY - QUANTITY: 0
VALUE: $ 0 M

BLI NR. 0

P-1 SHOPPING LIST
ITEM NO. 8 - PAGE NO. 15

EXHIBIT P-20A

APPROVED ACQUISITION OBJECTIVE

PROGRAM NAME: **MEP - MEDIUM MACHINE GUN TRIPOD (LIGHTWEIGHT)**

SUSTAINMENT

WAR RESERVE MATERIAL REQUIREMENT:	924
DEPOT MAINTENANCE FLOAT:	152
TOTAL:	1076

INITIAL ISSUE

I MARINE EXPEDITIONARY FORCE:	929
II MARINE EXPEDITIONARY FORCE:	965
III MARINE EXPEDITIONARY FORCE:	581
SELECTED MARINE CORPS RESERVE:	608
SUPPORT ESTABLISHMENT:	1041
NORWAY AIR LANDED BRIDGADE:	0
TOTAL:	4124

APPROVED ACQUISITION OBJECTIVE

PROGRAM NAME: **HEAVY MACHINE GUN TRIPOD**

SUSTAINMENT

WAR RESERVE MATERIAL REQUIREMENT:	654
DEPOT MAINTENANCE FLOAT:	0
TOTAL:	654

INITIAL ISSUE

I MARINE EXPEDITIONARY FORCE:	1350
II MARINE EXPEDITIONARY FORCE:	1366
III MARINE EXPEDITIONARY FORCE:	675
SELECTED MARINE CORPS RESERVE:	690
SUPPORT ESTABLISHMENT:	1353
NORWAY AIR LANDED BRIDGADE:	0
TOTAL:	5434

APPROVED ACQUISITION OBJECTIVE	**6088**

APPROVED ACQUISITION OBJECTIVE

PROGRAM NAME: **DESIGNATED MARKSMANSHIP RIFLE**

SUSTAINMENT

WAR RESERVE MATERIAL REQUIREMENT:	27
DEPOT MAINTENANCE FLOAT:	60
TOTAL:	87

INITIAL ISSUE

I MARINE EXPEDITIONARY FORCE:	134
II MARINE EXPEDITIONARY FORCE:	110
III MARINE EXPEDITIONARY FORCE:	13
SELECTED MARINE CORPS RESERVE:	88
SUPPORT ESTABLISHMENT:	156
NORWAY AIR LANDED BRIDGADE:	0
TOTAL:	501

APPROVED ACQUISITION OBJECTIVE	**588**

APPROVED ACQUISITION OBJECTIVE

PROGRAM NAME: **JOINT COMBAT SHOTGUN**

SUSTAINMENT

WAR RESERVE MATERIAL REQUIREMENT:	0
DEPOT MAINTENANCE FLOAT:	830
TOTAL:	830

INITIAL ISSUE

I MARINE EXPEDITIONARY FORCE:	549
II MARINE EXPEDITIONARY FORCE:	1662
III MARINE EXPEDITIONARY FORCE:	568
SELECTED MARINE CORPS RESERVE:	331
SUPPORT ESTABLISHMENT:	875
NORWAY AIR LANDED BRIDGADE:	0
TOTAL:	3985

APPROVED ACQUISITION OBJECTIVE	**4815**

APPROVED ACQUISITION OBJECTIVE

PROGRAM NAME: **DIVERS PROPULSION SYSTEM**

SUSTAINMENT

WAR RESERVE MATERIAL REQUIREMENT:	0
DEPOT MAINTENANCE FLOAT:	0
TOTAL:	0

INITIAL ISSUE

I MARINE EXPEDITIONARY FORCE:	36
II MARINE EXPEDITIONARY FORCE:	36
III MARINE EXPEDITIONARY FORCE:	36
SELECTED MARINE CORPS RESERVE:	18
SUPPORT ESTABLISHMENT:	0
NORWAY AIR LANDED BRIDGADE:	0
TOTAL:	126

APPROVED ACQUISITION OBJECTIVE	**126**

BUDGET ITEM JUSTIFICATION SHEET	DATE

APPROPRIATION/BUDGET ACTIVITY:	P-1 ITEM NOMENCLATURE:
PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	LT WT 155MM HOWITZER (LW155)
	RCN: 021012

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	70	120	120	120
COST (IN MILLIONS)	$ 0.0	$ 0.0	$ 0.0	$ 7.6	$ 106.4	$ 148.4	$ 142.1	$ 142.0

The LW155 replaces the M198 howitzer and will be the sole USMC artillery weapon for all forces and missions.
A 45% reduction in weight compared to the current system allows for greater strategic and tactical mobility
while maintaining or improving range, weapon stability, accuracy, and durability.
Battlefield mobility and rates of fire are also significantly improved creating a weapon that is more survivable
and lethal. Long lead funding in FY99 allows for procurement of pre-production tooling which allows
production to start immediately upon approval of the MS III decision. Without long lead funding the program will be
delayed/idle for at least one year. The LW155 is currently a Code B item with Code approval anticipated prior

Request for Proposal (RFP) was released in April 1996. Technical test and operational assessment completed
on schedule in December 1996. Source Selection Board and EMD contract award to occur in March 1997.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO: PROCUREMENT, MARINE CORPS BUDGET ACTIVITY 2	B. WEAPON MODEL/SERIES/POPULAR NAME LT WT 155MM HOWITZER (LW155)	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION TBD	D. DATE

WEAPON SYSTEM COST ELEMENTS	IDENT. CODE	FY 1996 UNIT COST	FY 1996 QTY TOTAL COST	FY 1997 UNIT COST	FY 1997 QTY TOTAL COST	FY 1998 UNIT COST	FY 1998 QTY TOTAL COST	FY 1999 UNIT COST	FY 1999 QTY TOTAL COST
Production Facilities									4413
Carriage&Recoil Tooling									2400
Gages									777
Long lead funding will purchase pre-production factory tooling requiring lengthy lead times (12-18 months)/plus set-up time. The actual items and cost of the tooling is dependent on the contractor down selected during 2QTR FY97.									
TOTAL COST			0		0		0		7590

BLI NR. 218500

P-1 SHOPPING LIST
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EXHIBIT P-5

PROCUREMENT HISTORY & PLANNING										DATE:
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2					P-1 ITEM NOMENCLATURE: LT WT 155MM HOWITZER (LW155) RCN: 021012					
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV RQRD	IF YES WHEN AVAIL
LONG LEAD TOOLING FY 99	TBD	CPIF	TACOM	JAN 99	TBD	Various	Not Avail	NO	NO	TBD

REMARKS:
Long lead funding covers factory pre-production tooling ($7.6M) necessary for the production line to be set-up and operating immediately after the MS III decision (Jan 00). These values are current government best estimates and will be adjusted upon receipt of the selected contractor's selection in 2QTR FY97. Authorization of long lead funding is subject to an in process review prior to the release of funds (est Jan 99).

"CODE B" ITEM DESCRIPTION	DATE
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT, MARINE CORPS/BUDGET ACTIVITY 2	P-1 ITEM NOMENCLATURE: LT WT 155MM HOWITZER (LW155) RCN: 021012

1. CURRENT DEVELOPMENT AND TEST STATUS		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
a. Developmental Test & Evaluation (DT&E)	Plan/Actual	DEC 96		
b. Initial Operational Test & Evaluation (IOT&E)	Plan/Actual			
c. Operational Test & Evaluation (OT&E)	Plan/Actual	APR 99		
d. Available Date of Technical Data Package (TDP) or Performance Specifications	Plan/Actual	FEB 99		

2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 2QTR 00

3. EQUIPMENT ITEM(S) TO BE REPLACED: M198 HOWITZER

4. EXTENT OF IMPROVEMENT OVER EQUIPMENT ITEM(S) TO BE REPLACED:

The LW155 will achieve a 45% reduction in weight compared to the current M198 resulting in improved strategic and tactical transportability. Emplacement and dispacement times are half of the M198 resulting in greatly improved battlefield mobility. These improvements result in a much more lethal and survivable weapon.

5. DEVELOPMENT CONTRACT INFORMATION (RDT&E Funding Profile - $ in Millions)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THROUGH PY (FY1996)	CY (FY1997)	BY (FY1998)	BEYOND BY
TBD	TBD	LW155	$ 20.770	$ 13.269	$ 35.303	$ 42.539
			$	$	$	$
			$	$	$	$
			$	$	$	$
			$	$	$	$
TOTAL RDT&E FUNDING			$ 20.77	$ 13.269	$ 35.303	$ 42.539

REMARKS:

Phase II DT is scheduled for 3QTR FY98- 2QTR FY99.